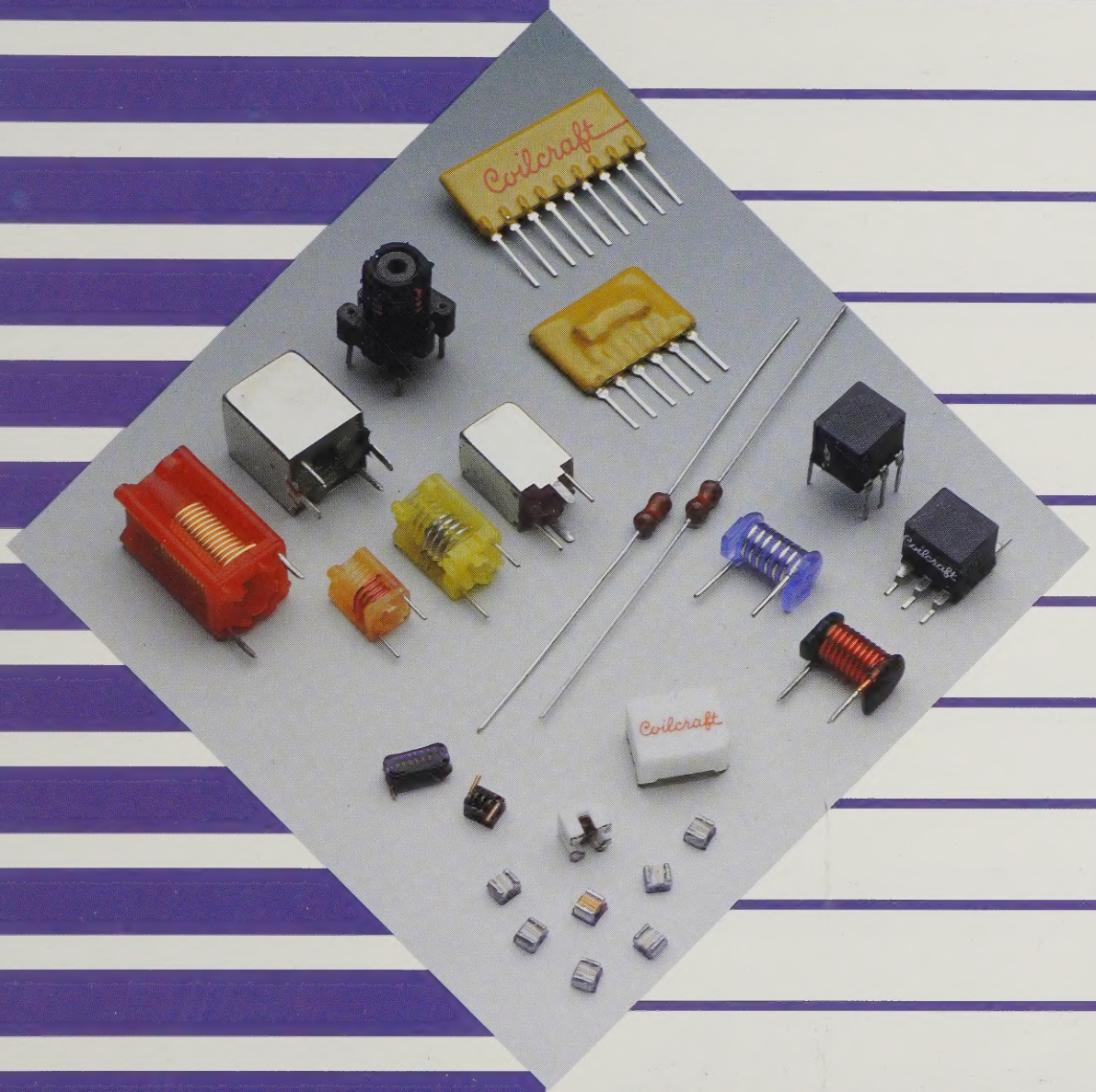
RF Inductors

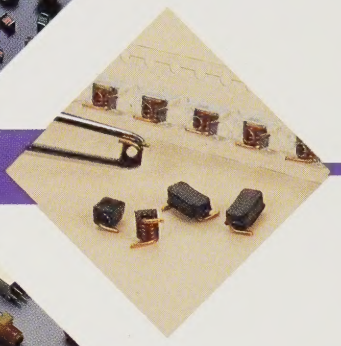


Coilcraft

RF Inductors

Surface Mount Inductors

Close tolerance chip inductors from 5 nH to 1,000 µH. High frequency "CS" series with the industry's highest SRFs. High Q and high current models. Also surface mount transformers and toroids.



"Spring" Air Core Inductors

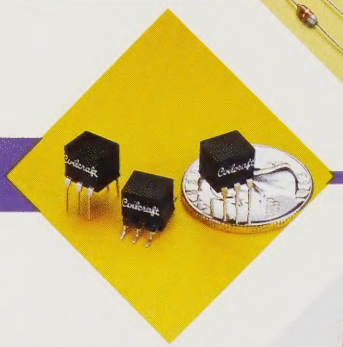
Exceptionally high Q over a broad frequency range. Jacketed for mechanical stability and close tolerance. Flat top allows auto placement.

Tuneable Inductors

A wide variety of vertical and horizontal models covering the range from 9 nH to 1143 µH. International 5, 7 and 10mm sizes. Precision molded for tight tolerances and high stability.

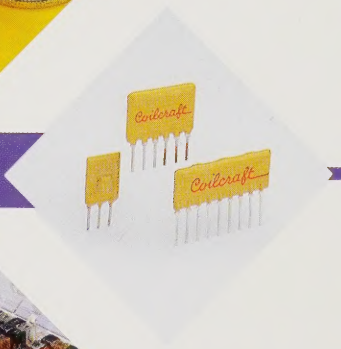
Fixed Inductors

Tight tolerance, high Q insert molded inductors and low cost conformal coated axial lead chokes covering the inductance range from 10 nH to 1000 µH.



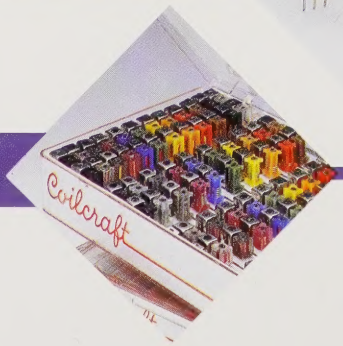
Wideband RF Transformers

Reliable performance at a very low price. Low profile DIP package in either surface mount or through-hole version.



LC Filter Networks

Choose low, high or bandpass filters in a variety of alignments and SIP, DIP or surface mount configurations. Use of tight tolerance chip inductors permits easy customization.



Designer's Kits

Handy, low-cost kits put a wide range of component values at your fingertips. Save hours hunting around for prototyping parts.

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Chip Inductors – Product Specifications

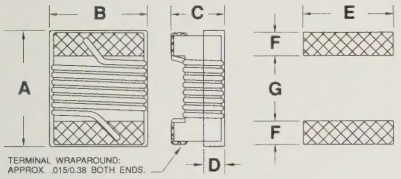
	Item	Specification	Test Method/Condition
Environmental	Temperature Coefficient of Inductance (TCL)	Ceramic core: +25 to +125 ppm/°C typical over –40°C to +125°C at frequency specified in product table. Ferrite core: 1008 size: +100 to +300 ppm/°C typical over –40°C to +85°C at frequency specified in product table. 1812 size: +200 to +700 ppm/°C typical over –40°C to +85°C at frequency specified in product table.	The inductor shall be placed in an LC oscillator circuit. The inductor will be the only portion of the circuit in the environmental chamber. ΔL will be indicated by Δf and calculated using the equation below. $TCL = \frac{f_1^2 - f_2^2}{f_1^2 (T_1 - T_2)} (1 \times 10^6)$
	Static Humidity	1. Inductance shall not change more than ±5%. 2. Q shall not change more than ±10%.	Inductors shall be subjected to 95 ±5% R.H. at 50°C ±2°C for 100 hours. Inductors are to be tested after having air dried for two hours.
	High Temperature Storage	1. There shall be no case deformation or change in appearance. 2. Inductance shall not change more than ±5%. 3. Q shall not change more than ±10%.	Inductors shall be subjected to +125°C ±2°C for 48 ±2 hours. Inductors are to be tested after 1 hour at room temperature.
	Thermal Shock		Inductors shall be subjected, 10 times, to the following temperature cycle. 1. –40°C for 30 minutes. 2. +125°C for 30 minutes. Inductors are to be tested after 1 hour at room temperature.
	Low Temperature Storage		Inductor shall be subjected to –40°C ±2°C for 48 ±2 hours. Inductors are to be tested after 1 hour at room temperature.
Life	High Temperature Load Life	Inductors shall not have a shorted or open winding.	Inductors shall be stored at 110°C for 1000 hours with rated current applied. Inductor shall be tested at start of test, at 500 hours, and 1000 hours. Inductors are to be tested after 1 hour at room temperature.
	Moisture Resistance		Inductors shall be subjected to ten 24 hour cycles at 25°C to 65°C at 80 to 95% R.H., per MIL-STD202 Method 106. During any one of the first nine cycles, inductors are to be removed from the chamber and exposed for 3 hours to –10°C. Inductors are to be tested after 2 hours at room temperature.

Chip Inductors – Product Specifications

	Item	Specification	Test Method/Condition
General	Operating Temperature Range	Ceramic core –40°C to +125°C Ferrite core –40°C to +85°C	
	Coefficient of Expansion	6.7 x 10^{-6} ppm/°C (typical)	
	Insulation Resistance	1000 megohms minimum.	100V DC between inductor teminals and center case.
	Dielectric Withstanding Voltage	No evidence of voltage breakdown.	500V AC between inductor terminals and center of case for a maximum of 1 minute.
	Flammability	IEC 695-2-2	Withstands needle-flame test.
Other	Solderability	The pad area must have 80% min. solder coverage.	Dip pads in RMA flux (Kester 185 or equiv.) and dip in solder pot (62Sn/36Pb/2Ag solder) at 232°C ±5°C for five seconds.
	Resistance to Soldering Heat	1. There shall be no case deformation or change in appearance. 2. Inductance shall not change more than ±5%. 3. Q shall not change more than ±10%.	Inductors shall be reflowed onto a P.C. board using 62Sn/36Pb/2Ag solder paste. Solder process shall be 230°C for 20 ±2 seconds and 260°C for 5 ±2 seconds.
	Random Vibration		Inductors shall be randomly vibrated per NAVMAT P9492 profile. Samples shall be subjected to .04G/Hz for a minimum of 15 minutes per axis, for each of three axes.
	Mechanical Shock		Test per MIL-STD 202 method 213 test condition A. Test mounted samples 3 axes, 6 times, totalling 18 shocks. (50G's, 11ms, half - sine).
	Component Adhesion (push test)	4 lbs. for Pd/Pt/Ag pads. 6 lbs. for Mo/Mn pads.	The device shall be reflow soldered (232°C ±5°C for 10 seconds) to a tinned copper substrate. A dynometer force gauge shall be applied to the side of the component. The device must withstand a minimum force of 4 pounds (6 pounds for Mo/Mn) without a failure of the termination to component attachment.
	Resistance to Solvent	There shall be no case deformation, change in appearance, or obliteration of marking.	Inductors shall withstand boiling Freon TMS for 6 minutes or boiling 1-1-1 Trichloroethane for 3 minutes.

Chip Inductors–1008CS Series High Frequency Economy

Coilcraft "CS" series chip inductors have been designed especially for the needs of today's high frequency designer. Their ceramic construction delivers the highest possible SRF's as well as excellent Q values. The non-magnetic coilform also assures the utmost in thermal stability, predictability and batch consistency.



A Max.	B Max.	C Max.	D Ref.	E	F	G
.115	.110	.090	.020	.080	.020	.060
2,92	2,79	2,29	0,51	2,03	0,51	1,52

Typical footprint: .100/2,54 x .038/0,96 pads separated by .059/1,50

Part Number	Inductance[1] nH	Q Min	Test Freq MHz	SRF Min MHz	R_{DC} Max Ohms	I_{DC}[2] Max mA
1008CT-040[3]XMBC	4.7 nH ± 20%	50	50	>3000	.15	900
1008CT-080[3]XMBC	8.2	50	50	>3000	.22	900
1008CS-100XMBC	10	50	50	>3000	.08	1000
1008CS-120XMBC	12	50	50	>3000	.09	1000
1008CS-150XMBC	15	50	50	>3000	.10	1000
1008CS-180XMBC	18	50	50	2500	.11	1000
1008CS-220XMBC	22	50	50	2000	.12	1000
1008CS-270XMBC	27	50	50	1500	.13	1000
1008CS-330XMBC	33	50	50	1500	.14	1000
1008CS-390XMBC	39	50	50	1500	.15	1000
1008CS-470XMBC	47	50	50	1350	.16	1000
1008CS-560XKBC	56nH ± 10%	50	50	1150	.18	1000
1008CS-680XKBC	68	50	50	1050	.20	1000
1008CS-820XKBC	82	50	50	950	.22	1000
1008CS-101XKBC	100	25	25	950	.56	800
1008CS-121XKBC	120	25	25	900	.63	800
1008CS-151XKBC	150	25	25	850	.70	800
1008CS-181XKBC	180	25	25	700	.77	750
1008CS-221XKBC	220	28	25	600	.84	720
1008CS-271XKBC	270	28	25	550	.91	690
1008CS-331XKBC	330	30	25	500	1.05	660
1008CS-391XKBC	390	30	25	465	1.12	630
1008CS-471XKBC	470	30	25	425	1.19	600
1008CS-561XKBC	560	30	25	415	1.33	580
1008CS-621XKBC	620	30	25	375	1.40	560
1008CS-681XKBC	680	30	25	340	1.47	540
1008CS-751XKBC	750	33	25	330	1.54	520
1008CS-821XKBC	820	33	25	325	1.61	500
1008CS-911XKBC	910	33	25	305	1.68	480
1008CS-102XKBC	1000	33	25	290	1.75	460
1008CS-122XKBC	1.2 uH ± 10%	20	7.9	200	2.0	440
1008CS-152XKBC	1.5	20	7.9	165	2.3	420
1008CS-182XKBC	1.8	20	7.9	150	2.6	400
1008CS-222XKBC	2.2	20	7.9	140	2.8	380
1008CS-272XKBC	2.7	20	7.9	110	3.2	360
1008CS-332XKBC	3.3	20	7.9	90	3.4	350
1008CS-392XKBC	3.9	20	7.9	70	3.6	340
1008CS-472XKBC	4.7	20	7.9	60	4.0	330

1. Parts can be special ordered with 50% lower tolerance values. Higher inductances also available.
2. For 15°C rise.
3. Height of these parts is .055″/1.40 mm. For additional values in low profile packages, contact Coilcraft.
4. Inductance measured using Coilcraft SMD-A fixture in HP4191A impedance analyzer. For recommended test procedures, contact Coilcraft.
5. Q read directly on HP4342A Q meter and Coilcraft SMD-C test fixture using Coilcraft-supplied correlation piece.
6. SRF measured using HP8753B network analyzer and Coilcraft CCF 840-A test fixture.
7. R_{DC} measured on Cambridge Technology micro-ohmmeter and Coilcraft CCF 840 test fixture.

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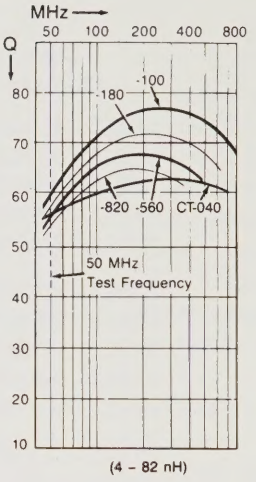
1008CS Series

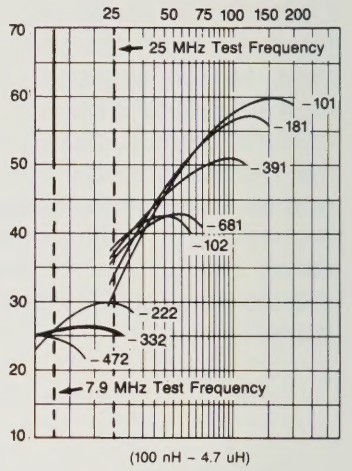
TYPICAL Q* AT SELECTED TEST FREQUENCIES

Part Number	Test Frequencies (MHz) 300	200	150	100	75	50	25
1008CT-040	63	62	60	58	57	**55**	
1008CT-080	62	62	61	59	57	**54**	
1008CS-100	76	75	73	70	65	**57**	
1008CS-120	73	72	70	66	63	**57**	
1008CS-150	71	70	68	63	59	**55**	
1008CS-180	72	72	71	67	62	**55**	
1008CS-220	75	74	71	66	62	**56**	
1008CS-270	74	72	68	63	59	**55**	
1008CS-330	69	70	67	64	60	**55**	
1008CS-390	67	70	67	64	61	**56**	
1008CS-470		70	68	65	61	**56**	
1008CS-560		65	64	62	60	**55**	
1008CS-680		66	65	63	60	**55**	
1008CS-820		64	65	61	59	**55**	
1008CS-101		58	59	57	53	44	**32**
1008CS-121		54	55	53	48	40	**30**
1008CS-151		52	55	52	48	44	**33**
1008CS-181		50	55	57	53	45	**33**
1008CS-221			45	50	48	43	**35**
1008CS-271			42	50	48	43	**35**
1008CS-331			43	51	49	45	**36**
1008CS-391			40	52	50	46	**36**
1008CS-471				40	43	42	**36**
1008CS-561				36	42	42	**36**
1008CS-621				40	44	44	**37**
1008CS-681				35	40	43	**36**
1008CS-751				37	42	43	**36**
1008CS-821				35	43	44	**38**
1008CS-911				31	38	43	**38**
1008CS-102				28	36	42	**38**

*Use these Q values for reference only. Actual minimum Qs for specification purposes are shown on other side.

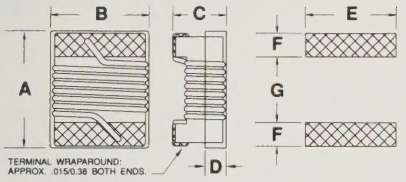
TYPICAL Q vs FREQUENCY*





Chip Inductors – 1008LS Series Low DCR

Higher Q and lower DCR than our 1008CS Series. For inductances between 1.2 and 10.0 µH. Ferrite core.



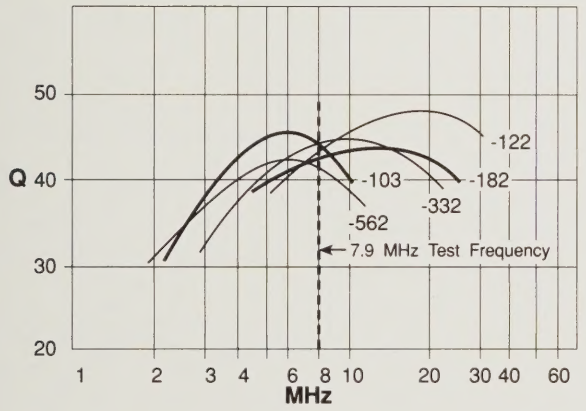
A Max.	B Max.	C Max.	D Ref.	E	F	G
.115	.110	.090	.020	.080	.020	.060
2,92	1,79	2,29	0,51	2,03	0,51	1,52

Typical footprint: .100/2,54 x .038/0,96 pads separated by .059/1,50

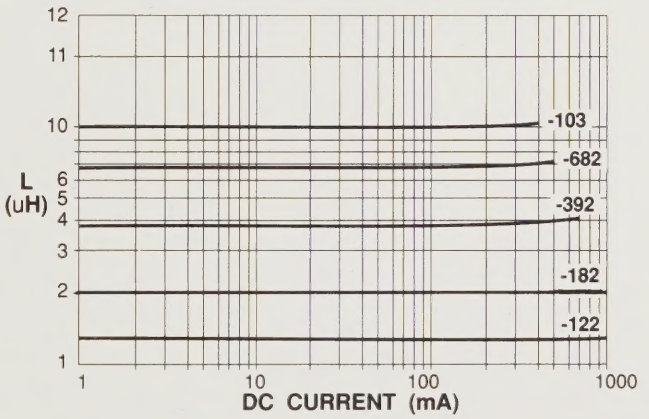
Part Number	Inductance[1] µH	Q Min	Test Freq MHz	SRF Min MHz	R_{DC} Max Ohms	I_{DC} Max[2] mA
1008LS-122XKBC	1.2 ± 10%	37	7.9	210	.68	650
1008LS-152XKBC	1.5	37	7.9	190	.76	630
1008LS-182XKBC	1.8	37	7.9	170	.84	600
1008LS-222XKBC	2.2	37	7.9	150	1.10	520
1008LS-272XKBC	2.7	37	7.9	135	1.28	490
1008LS-332XKBC	3.3	37	7.9	120	1.46	450
1008LS-392XKBC	3.9	37	7.9	105	1.56	420
1008LS-472XKBC	4.7	37	7.9	90	1.68	400
1008LS-562XKBC	5.6	37	7.9	80	1.82	380
1008LS-682XKBC	6.8	37	7.9	70	2.00	360
1008LS-822XKBC	8.2	37	7.9	65	2.65	330
1008LS-103XKBC	10.0	37	7.9	60	2.95	300

1. Parts can be special ordered with intermediate inductance values or 50% lower tolerance.
2. For 15°C rise.
3. Inductance measured using Coilcraft SMD-A fixture in HP4191A impedance analyzer. For recommended test procedures, contact Coilcraft.
4. Q read directly on HP4342A Q-meter and Coilcraft SMD-C fixture.
5. SRF measured using HP8753B network analyzer Coilcraft CCF 840-A fixture.
6. R_{DC} measured on Cambridge Technology Micro-ohmmeter.

Q vs FREQUENCY



L vs CURRENT



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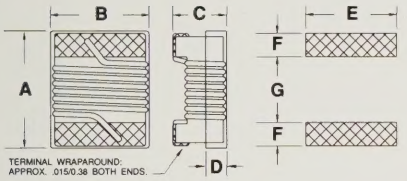
Chip Inductors – 1008CT Series Low Profile

The .055″ profile makes these parts ideal for low clearance applications.

Simple construction assures high reliability and stability. Much higher SRF than ferrite alternatives.



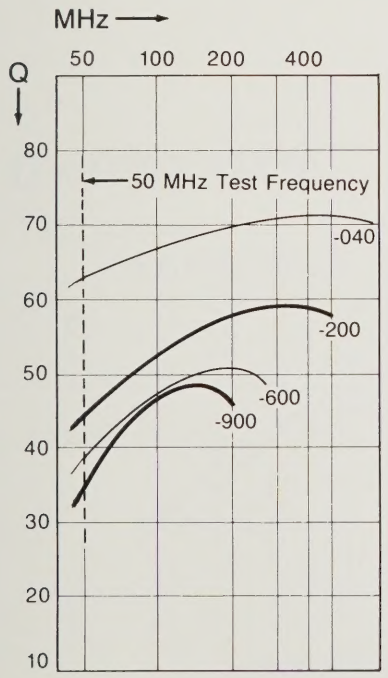
A Max	B Max	C Max	D Ref	E	F	G
.115	.110	.055	.020	.080	.020	.060
2,92	2,79	1,40	0,51	2,03	0,51	1,52

Typical footprint: .100/2,54 x .038/0,96 pads separated by .059/1,50

Part Number	Inductance[1] nH	Q Min	Test Freq MHz	SRF Min MHz	R_{DC} Max Ohms	I_{DC}[2] Max mA
1008CT-040XMBC	4.7 nH ± 20%	60	50	> 900	.15	900
1008CT-080XMBC	8.2	50	50	> 900	.22	900
1008CT-150XMBC	15	40	50	> 900	.27	900
1008CT-200XMBC	20	40	50	> 900	.33	900
1008CT-300XMBC	30	35	50	> 900	.38	900
1008CT-400XMBC	40	35	50	> 900	.43	900
1008CT-500XKBC	50 nH ± 10%	35	50	> 900	.48	900
1008CT-600XKBC	60	35	50	> 900	.52	900
1008CT-700XKBC	70	35	50	> 900	.55	860
1008CT-800XKBC	80	35	50	> 900	.56	840
1008CT-900XKBC	90	30	50	> 900	.61	820

1. Parts can be special ordered with 50% lower tolerance values.
2. For 15°C rise.
3. Inductance measured using Coilcraft SMD-A fixture in HP4191A impedance analyzer. For recommended test procedures, contact Coilcraft.
4. Q read directly on HP4342A Q-meter and Coilcraft SMD-C fixture.
5. SRF measured using HP8753B network analyzer and Coilcraft CCF840-A test fixture.
6. R_{DC} measured on Cambridge Technology Micro-ohmmeter.

Q vs FREQUENCY



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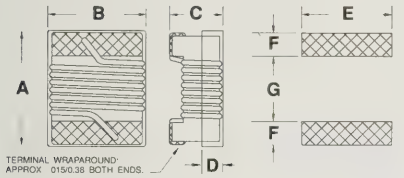
Chip Inductors – 0805CS Series

High Frequency Miniature

World's smallest wirewound inductor. Ceramic body and wirewound construction provide highest SRFs available in 0805 size. These ultra-compact inductors provide exceptional Q values, even at high frequencies.



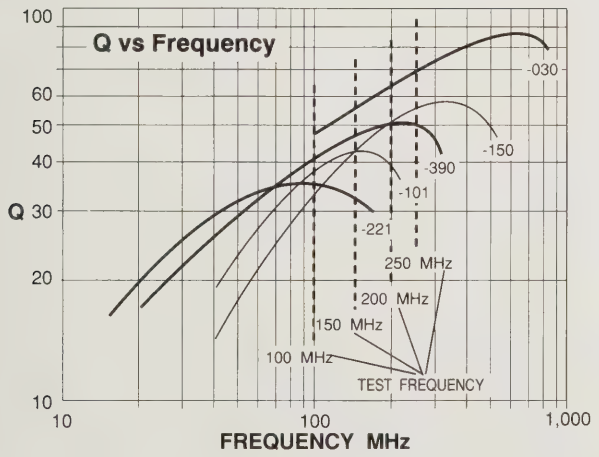
A Max.	B Max.	C Max.	D Ref.	E	F	G
.095	.070	.070	.020	.050	.020	.040
2,41	1,78	1,78	0,51	1,27	0,51	1,02

Typical footprint: .070/1,78 x .038/0,96 pads separated by .034/0,86

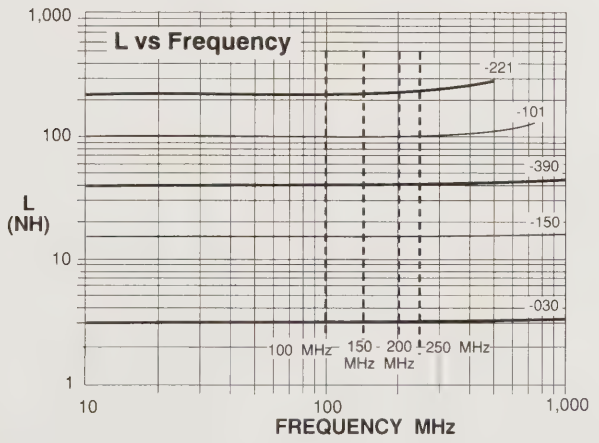
Part Number	Inductance[1] nH	Q Min	Test Freq MHz	SRF Min MHz	R_{DC} Max Ohms	I_{DC}[2] Max mA
0805CS-030-XMBC	3.3 ± 20%	50	250	>3000	.08	600
0805CS-060-XMBC	6.8	50	250	>3000	.11	600
0805CS-080-XMBC	8.2	50	250	>3000	.12	600
0805CS-120-XMBC	12	45	250	2750	.15	600
0805CS-150-XMBC	15	45	250	2500	.17	600
0805CS-180-XMBC	18	45	250	2400	.20	600
0805CS-220-XMBC	22	45	250	2200	.22	500
0805CS-270-XMBC	27	45	250	2000	.25	500
0805CS-330-XMBC	33	40	250	1800	.27	500
0805CS-390-XMBC	39	40	250	1600	.29	500
0805CS-470-XMBC	47	40	200	1400	.31	500
0805CS-560-XKBC	56 ± 10%	40	200	1300	.34	500
0805CS-680-XKBC	68	40	200	1200	.38	500
0805CS-820-XKBC	82	40	150	1020	.42	400
0805CS-101-XKBC	100	40	150	950	.46	400
0805CS-121-XKBC	120	35	150	860	.51	400
0805CS-151-XKBC	150	35	100	780	.56	400
0805CS-181-XKBC	180	35	100	710	.64	400
0805CS-221-XKBC	220	30	100	630	.70	400

1. Parts can be special ordered with 50% lower tolerance values. Higher inductances also available.
2. For 15°C rise.
3. Inductance measured using Coilcraft SMD-A fixture in HP4191A impedance analyzer. For recommended test procedures, contact Coilcraft.
4. Q read directly on Boonton 190A Q meter and Coilcraft CCF 834-A test fixture.
5. SRF measured using HP8753B network analyzer and CCF 840-A test fixture.
6. R_{DC} measured on Cambridge Technology micro-ohmmeter and Coilcraft CCF858 test fixture.

Q vs FREQUENCY



L vs FREQUENCY



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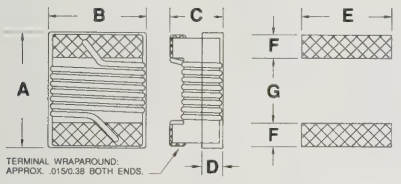
Chip Inductors – 1812LS Series 12 – 1000 µH

High inductance in a standard 1812 footprint.



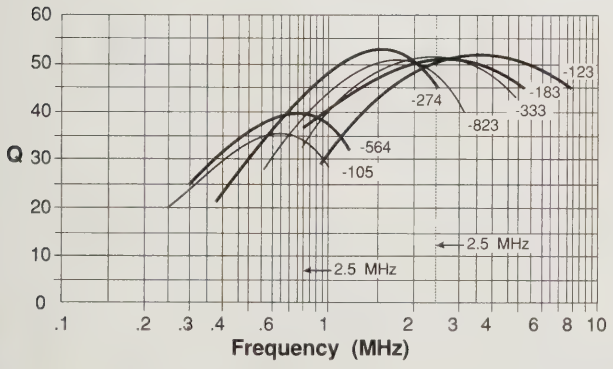
A Max.	B Max.	C Max.	D Ref.	E	F	G
.195	.150	.135	.070	.100	.025	.128
4,95	3,81	3,43	1,78	2,54	0,64	3,25

Typical footprint: .120/3,05 x .050/1,27 pads separated by .108/2,74

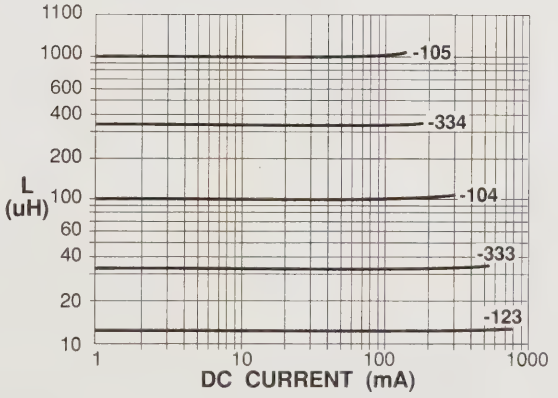
Part Number	Inductance[1] µH	Q Min	Test Freq MHz	SRF Min MHz	R_{DC} Max Ohms	I_{DC} Max[2] mA
1812LS-123-XKBC	12.0 ± 10%	42	2.5	55	2.0	310
1812LS-153-XKBC	15.0	42	2.5	45	2.5	290
1812LS-183-XKBC	18.0	45	2.5	37	2.8	270
1812LS-223-XKBC	22.0	45	2.5	32	3.2	260
1812LS-273-XKBC	27.0	45	2.5	27	3.6	240
1812LS-333-XKBC	33.0	45	2.5	23	4.0	230
1812LS-393-XKBC	39.0	45	2.5	19	4.5	210
1812LS-473-XKBC	47.0	42	2.5	16	5.0	200
1812LS-563-XKBC	56.0	42	2.5	13	5.5	190
1812LS-683-XKBC	68.0	40	2.5	10	6.0	180
1812LS-823-XKBC	82.0	40	2.5	9	7.0	170
1812LS-104-XKBC	100	40	2.5	8.5	8.0	150
1812LS-124-XKBC	120	33	0.79	8.5	11.5	135
1812LS-154-XKBC	150	36	0.79	8.5	13.0	125
1812LS-184-XKBC	180	36	0.79	8.0	14.2	120
1812LS-224-XKBC	220	38	0.79	6.0	16.2	115
1812LS-274-XKBC	270	38	0.79	5.0	20.5	105
1812LS-334-XKBC	330	38	0.79	4.5	22.5	100
1812LS-394-XKBC	390	38	0.79	3.5	24.5	90
1812LS-474-XKBC	470	38	0.79	3.0	26.5	85
1812LS-564-XKBC	560	33	0.79	2.0	28.5	75
1812LS-684-XKBC	680	33	0.79	1.9	38.0	60
1812LS-824-XKBC	820	30	0.79	1.6	41.0	55
1812LS-105-XKBC	1000	30	0.79	1.5	44.0	50

1. Parts can be special ordered with 50% lower tolerance values.
2. For 15°C rise.
3. Inductrance at 2.5 MHz measured using HP4191A RF impedance analyzer and Coilcraft SMD-A test fixture. Inductance at 0.79 MHz measured using HP4192A LF impedance analyzer and Coilcraft SMD-B test fixture. For recommended test procedures contact Coilcraft.
4. Q read directly on HP4342A Q-meter and Coilcraft SMD-C fixture.
5. SRF measured using HP8753B network analyzer and Coilcraft CCF 840-A test fixture.
6. R_{DC} measured on Cambridge Technology Micro-ohmmeter and Coilcraft CCF 859 test fixture.

Q vs FREQUENCY



L vs FREQUENCY



Coilcraft

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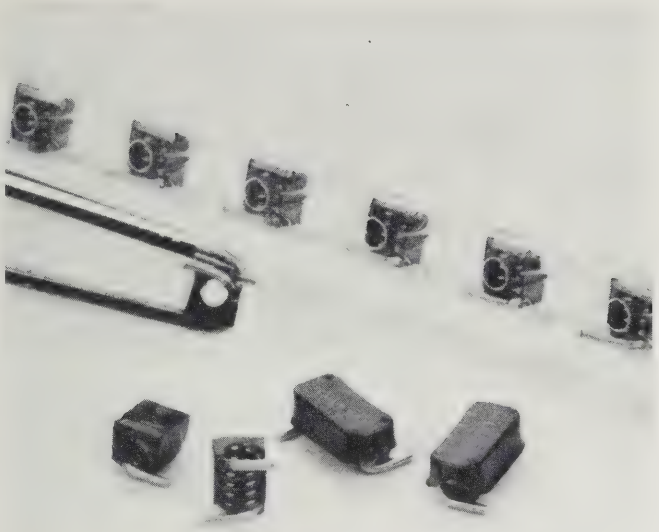
Surface Mount "Spring" Air Core Inductors



These surface mount air core "spring" inductors provide extremely high Q over a wide frequency range.

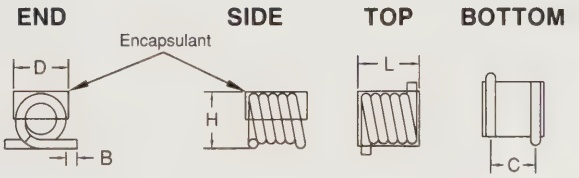
They're jacketed with a high temperature material which assures mechanical stability and very close tolerance. It also forms a flat top, making them suitable for automatic placement and reflow or vapor phase processing.

Coilcraft SMD spring inductors are available in standard EIA tape and reel packaging: 12 mm for size A, and 16 mm for size B parts.

Designer's Kit C102 contains samples of all standard parts shown. To order, contact Coilcraft.

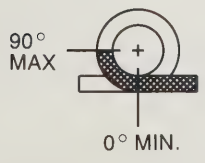
Specifications

Part Number	Turns	Inductance nH	Q Min	Test Freq. MHz	SRF GHz, Min
A01T	1	2.5 ± 10%	145	150	> 3
A02T	2	5.0 ± 10%	140	150	> 3
A03T	3	8.0 ± 5%	140	150	> 3
A04T	4	12.5 ± 5%	137	150	> 3
A05T	5	18.5 ± 5%	132	150	> 3
B06T	6	17.5 ± 5%	100	150	> 3
B07T	7	22.0 ± 5%	102	150	> 3
B08T	8	28.0 ± 5%	105	150	2.6
B09T	9	35.5 ± 5%	112	150	1.8
B10T	10	43.0 ± 5%	106	150	1.5

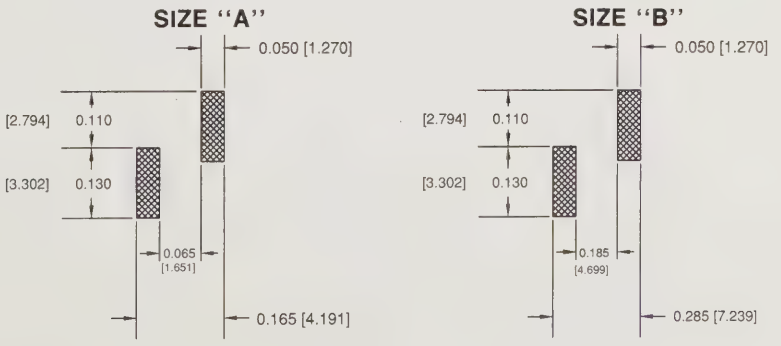


Size	D	H	L	B	C
A	.120 3,05	.125 3,18	.145 3,68	.023 ± .015 0,58 ± 0,38	.115 ± .010 2,92 ± 0,25
B	.120 3,05	.125 3,18	.270 6,86	.023 ± .015 0,58 ± 0,38	.230 ± .010 5,84 ± 0,25

Strip Length



Typical Footprint



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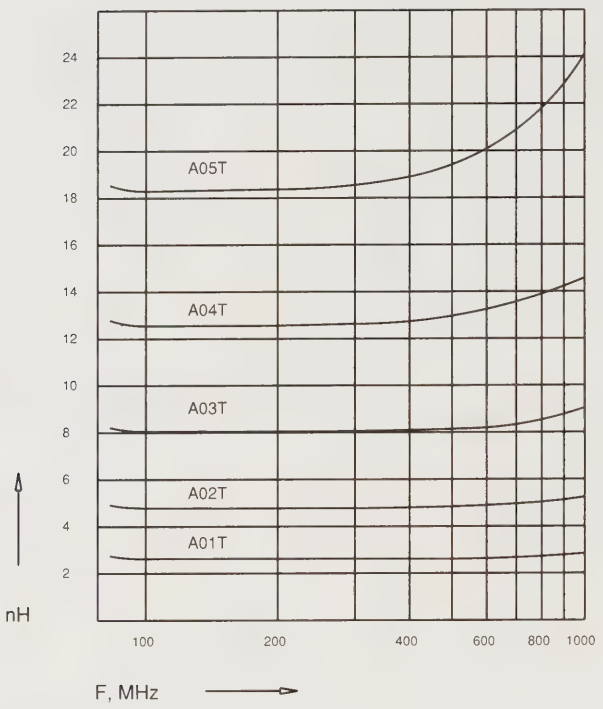
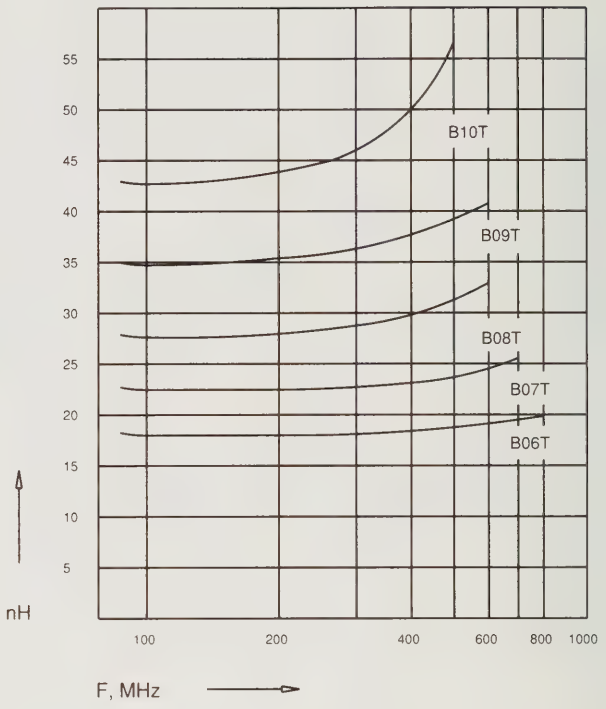
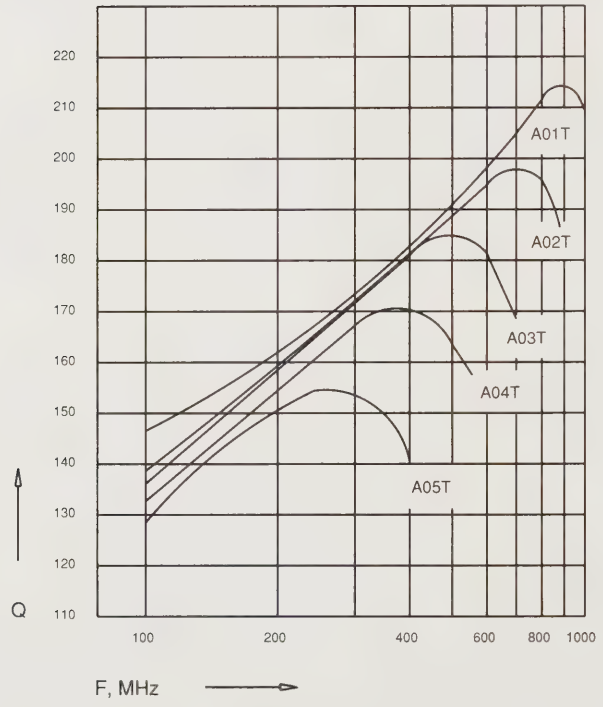
Surface Mount "Spring" Air Core Inductors

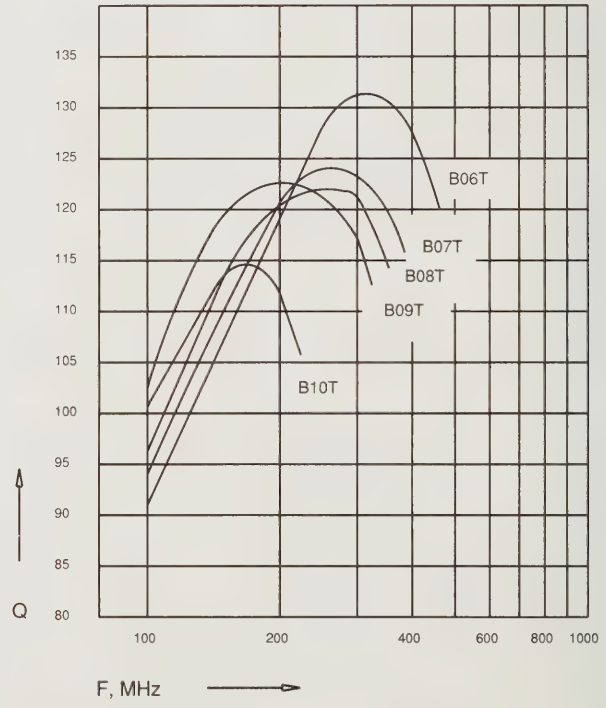
Typical L vs Frequency





Typical Q vs Frequency





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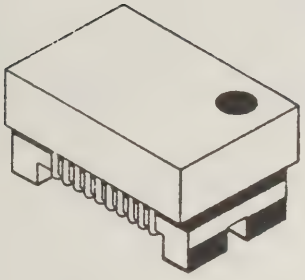
Coilcraft

NEW PRODUCT

Cary, Illinois • 708/639-2361 • FAX 708-639-1469

1812WBT SERIES – SURFACE MOUNT RF CHIP TRANSFORMERS

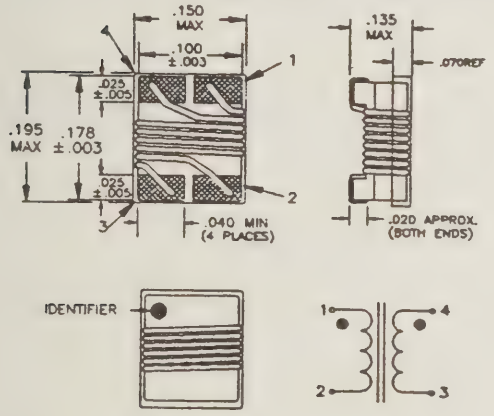


Coilcraft's WBT series chip transformers provide wide band pass performance in a small SMT package.

The transformers are offered on an 1812 size ferrite configuration in a convenient auto insertable package. These parts are packaged in tape and reel for easy dispensing.

Applications include impedance matching, voltage or current transformation, DC isolation, balanced/unbalanced mixing, matching, power splitting, coupling and signal inversion.

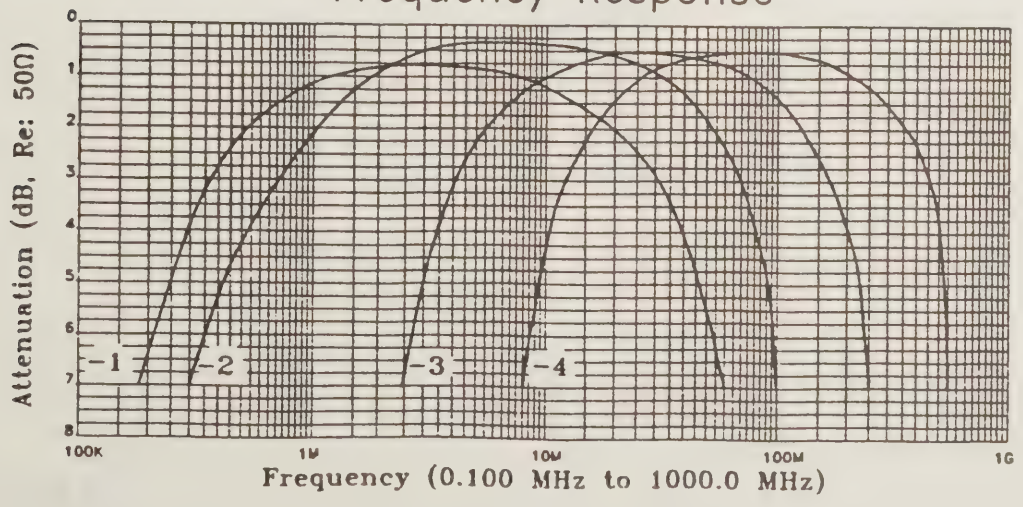
MECHANICAL SPECIFICATIONS AND SCHEMATIC



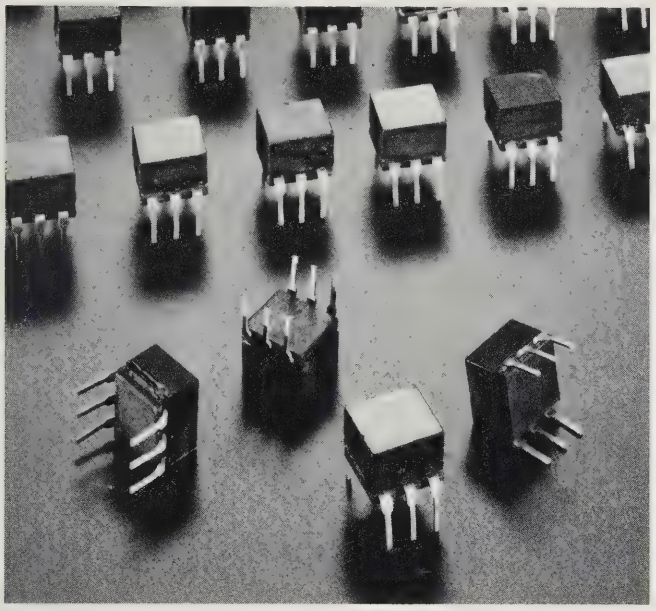
WBT SERIES ELECTRICAL CHARACTERISTICS

1812WBT	–1	–2	–3	–4
L (uH) per winding	14	5.3	1.25	.220
Test Freq. (MHz)	10	10	50	50
Turn Ratio	1:1	1:1	1:1	1:1
DCR Max. (Ω)	4.8	1.8	0.7	0.3
IDC (mA)	200	400	500	700
Isolation (Vrms)	50	50	50	50
Insertion Loss (dB)	<1	<1	<1	<1
Bandwidth (MHz)	.340–37	.680–82	1.8–220	11–480

Frequency Response



Wide Band RF Transformers



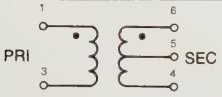
Coilcraft wide band transformers provide reliable performance at a price considerably lower than currently available equivalents.

The transformers are offered in tapped or untapped configurations and are packaged in a low-profile DIP-style plastic case. All parts are available in either a surface mount version or a through-hole version that's compatible with standard DIP sockets.

Applications include impedance matching, voltage or current transformation, DC isolation, balanced/unbalanced mixing, matching, power splitting, coupling, and signal inversion.

Coilcraft can also supply custom wide band transformers with special combinations of impedance ratio, insertion loss, frequency response, and current handling.

SPECIFICATIONS

Configuration	Part Number (Through-Hole)	Part Number (Surface Mount)	Ω Ratio	Frequency (MHz)
	WB1010PC	WB1010SM	1:1	.005-100
	WB1010-1PC	WB1010-1SM	1:1	.04-250
	WB1015PC	WB1015SM	1.5:1	.1-300
	WB1040PC	WB1040SM	4:1	.2-600
	WB2010PC	WB2010SM	1:1	.005-100
	WB2010-1PC	WB2010-1SM	1:1	.04-250
	WB2040PC	WB2040SM	4:1	.2-600
	WB3010PC	WB3010SM	1:1	.005-100
	WB3010-1PC	WB3010-1SM	1:1	.04-250
	WB3015PC	WB3015SM	1.5:1	.1-300
	WB3040PC	WB3040SM	4:1	.2-600

Isolation (primary to secondary): 300 V RMS min.

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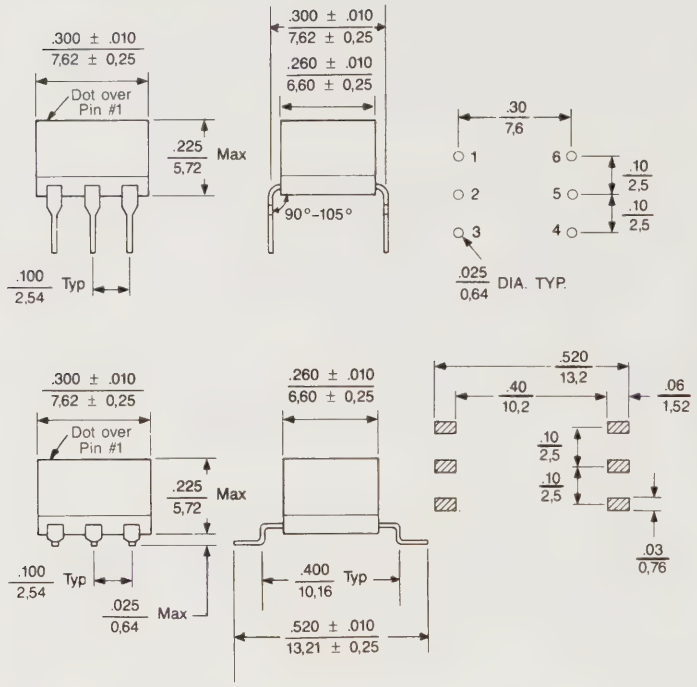
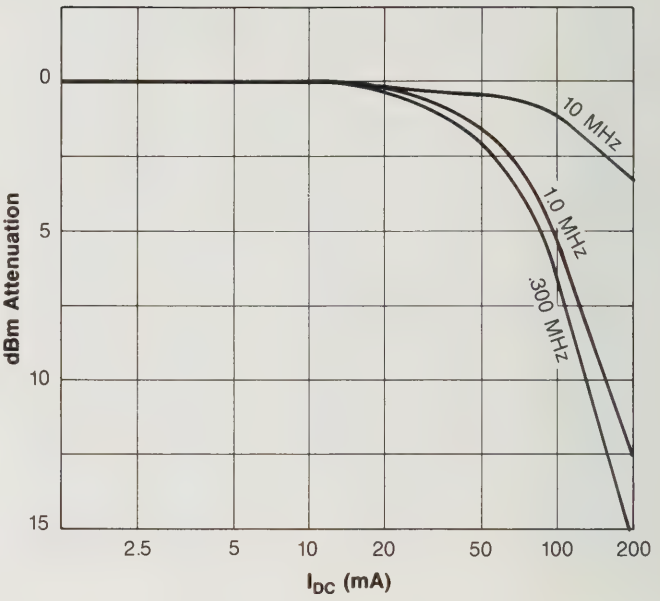
Wide Band RF Transformers

DIMENSIONS

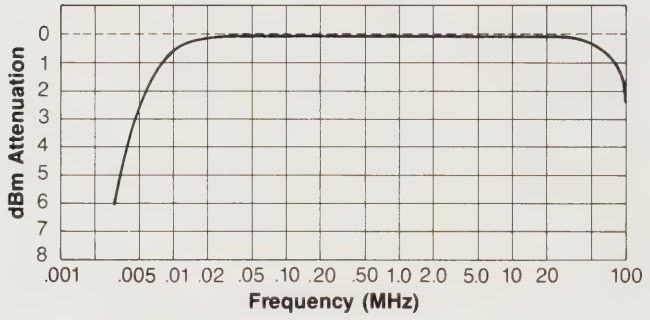


ATTENUATION VS CURRENT (TYP.)

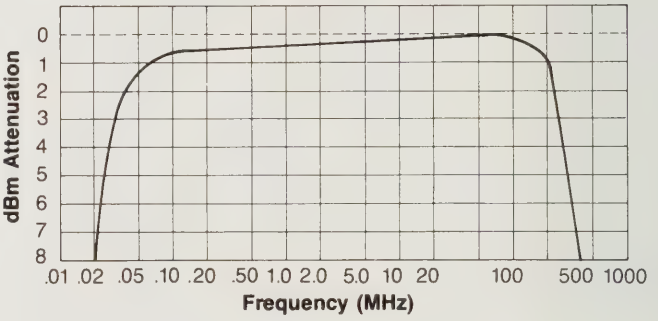


TYPICAL FREQUENCY RESPONSE

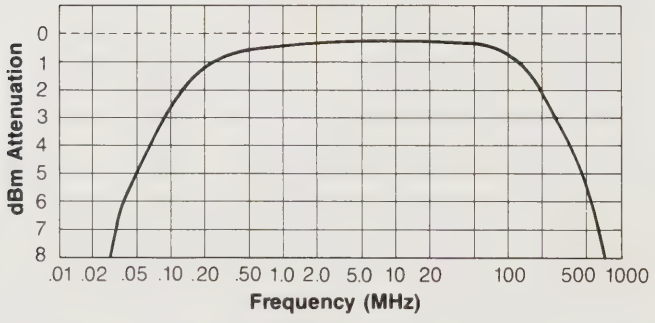
WB1010, WB2010, WB3010
3dB bandwidth .005-100 MHz



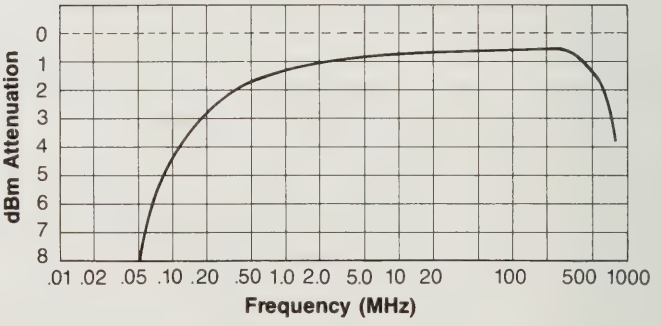
WB1010-1, WB2010-1, WB3010-1
3dB bandwidth .04-250 MHz



WB1015, WB3015
3dB bandwidth .1-300 MHz



WB1040, WB2040, WB3040
3dB bandwidth .2-600 MHz



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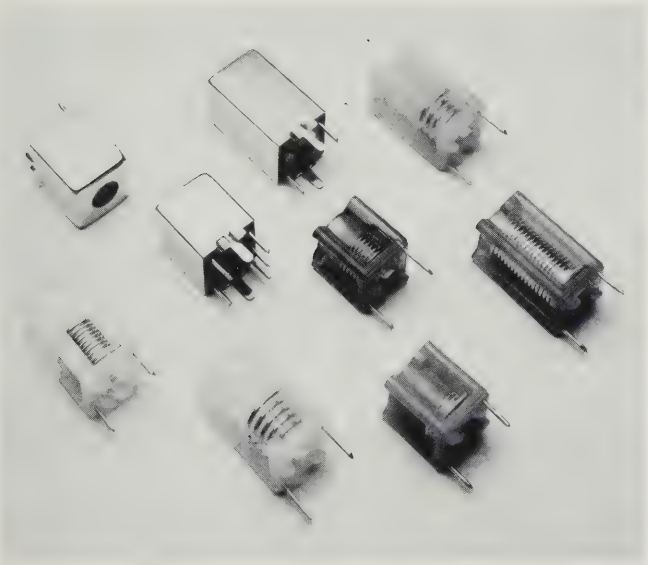
10mm Tuneable Coils – 142, 143, 144 Series



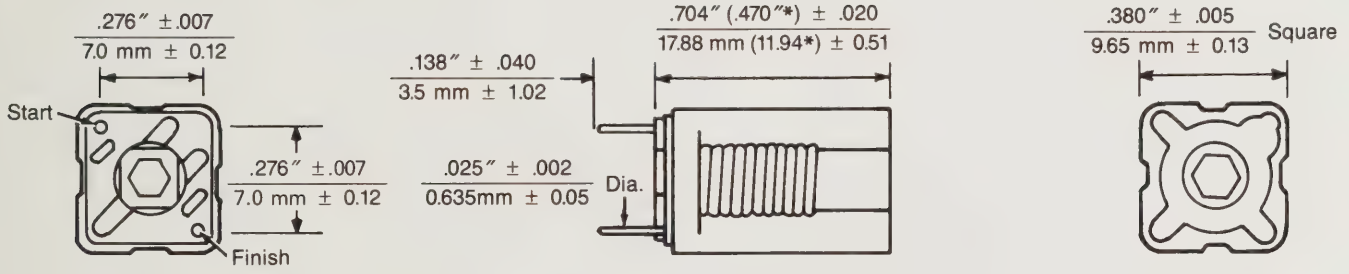
These Coilcraft variable inductors are precision molded in plastic to assure constant winding pitch and a consistent relationship to the printed circuit board.

Extremely economical, even in small quantities, the coils come in standard inductance values from 0.05 uH to 1.5 uH. 144 series parts are available with a tap to meet specific requirements.

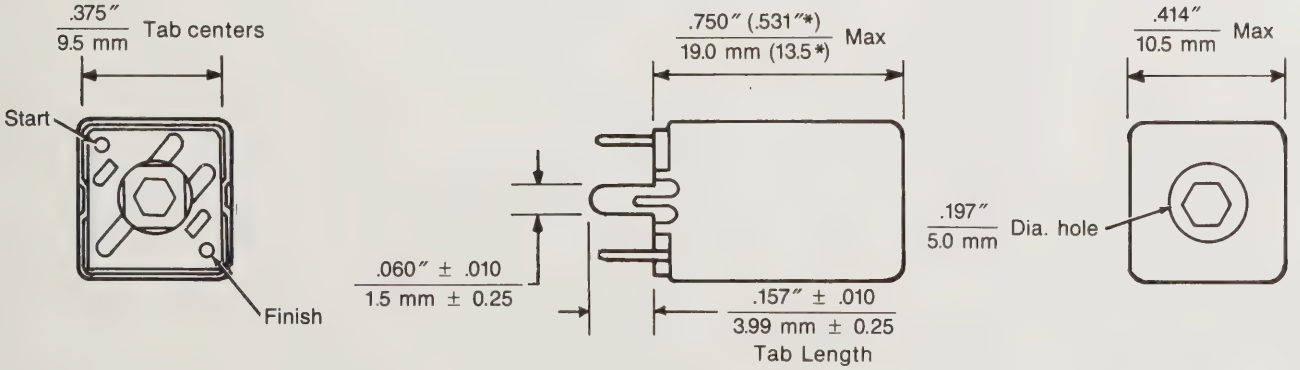
Tuning is done by means of a threaded powdered iron core with a hex socket for easy, positive adjustment. Plated brass shield cans with solderable tabs are optional.

Coilcraft **Designer's Kit M102** contains samples of all standard 10mm and 7mm tuneable inductors. To order, contact Coilcraft.

UNSHIELDED STYLES



WITH SHIELD CAN



***142 Series only**

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UNSHIELDED

Part Number	Color	Turns	No Core uH Ref	L Min uH	L Nom uH	L Max uH	Min Q @ L Nom
144-01J12	Brown	1½	.053	.056	.059	.062	—
144-02J12	Red	2½	.075	.079	.088	.098	—
144-03J12	Orange	3½	.099	.104	.123	.142	—
144-04J12	Yellow	4½	.126	.132	.164	.195	150 @ 40 MHz
144-05J12	Green	5½	.154	.162	.207	.252	154 "
144-06J12	Blue	6½	.182	.193	.250	.306	154 "
144-07J12	Violet	7½	.214	.240	.298	.356	158 "
144-08J12	Gray	8½	.245	.283	.344	.405	160 "
144-09J12	White	9½	.274	.328	.387	.446	162 "
144-10J12	Black	10½	.307	.391	.442	.493	162 "
142-01J08	Brown	1½	.063	.063	.065	.068	—
142-02J08	Red	2½	.092	.093	.100	.107	—
142-03J08	Orange	3½	.127	.133	.145	.157	—
142-04J08	Yellow	4½	.166	.174	.196	.218	125 @ 40 MHz
142-05J08	Green	5½	.212	.226	.256	.287	122 "
142-06J08	Blue	6½	.258	.275	.315	.355	112 "
142-07J08	Violet	7½	.307	.330	.378	.427	112 "
142-08J08	Gray	8½	.357	.396	.450	.504	106 "
142-09J08	White	9½	.412	.473	.520	.567	110 "
142-10J08	Black	10½	.464	.550	.592	.635	104 "
143-09J12	White	9½	.385	.404	.550	.693	86 @ 40 MHz
143-10J12	Black	10½	.438	.460	.624	.788	90 "
143-11J12	Brown	11½	.490	.515	.708	.900	78 "
143-12J12	Red	12½	.545	.578	.764	.950	84 "
143-13J12	Orange	13½	.600	.673	.845	1.02	84 "
143-14J12	Yellow	14½	.645	.726	.908	1.09	82 "
143-15J12	Green	15½	.692	.803	.978	1.15	90 "
143-16J12	Blue	16½	.765	.891	1.08	1.27	74 "
143-17J12	Violet	17½	.830	1.01	1.18	1.34	74 "
143-18J12	Gray	18½	.895	1.10	1.25	1.40	92 "
143-19J12	White	19½	.910	1.20	1.32	1.44	98 "
143-20J12	Black	20½	.960	1.30	1.40	1.50	92 "

SHIELDED

Part Number	Color	Turns	No Core uH	L Min uH	L Nom uH	L Max uH	Min Q @ L Nom
144-01J12S	Brown	1½	.050	.052	.053	.054	—
144-02J12S	Red	2½	.067	.070	.074	.078	—
144-03J12S	Orange	3½	.088	.092	.099	.106	—
144-04J12S	Yellow	4½	.106	.111	.122	.133	—
144-05J12S	Green	5½	.126	.132	.149	.165	—
144-06J12S	Blue	6½	.147	.154	.175	.196	106 @ 40 MHz
144-07J12S	Violet	7½	.168	.176	.200	.223	104 "
144-08J12S	Gray	8½	.190	.202	.226	.250	108 "
144-09J12S	White	9½	.210	.239	.256	.274	108 "
144-10J12S	Black	10½	.232	.270	.282	.295	106 "
142-01J08S	Brown	1½	.058	.058	.0595	.061	—
142-02J08S	Red	2½	.081	.084	.086	.089	—
142-03J08S	Orange	3½	.110	.115	.120	.121	—
142-04J08S	Yellow	4½	.140	.147	.156	.160	88 @ 40 MHz
142-05J08S	Green	5½	.174	.182	.197	.205	94 "
142-06J08S	Blue	6½	.210	.220	.240	.248	92 "
142-07J08S	Violet	7½	.247	.259	.280	.290	90 "
142-08J08S	Gray	8½	.284	.299	.322	.337	86 "
142-09J08S	White	9½	.319	.338	.363	.377	88 "
142-10J08S	Black	10½	.357	.382	.410	.422	82 "
143-09J12S	White	9½	.300	.315	.369	.423	80 @ 40 MHz
143-10J12S	Black	10½	.338	.355	.416	.477	82 "
143-11J12S	Brown	11½	.377	.396	.468	.540	78 "
143-12J12S	Red	12½	.412	.433	.509	.585	80 "
143-13J12S	Orange	13½	.452	.475	.556	.637	80 "
143-14J12S	Yellow	14½	.490	.515	.604	.693	78 "
143-15J12S	Green	15½	.522	.583	.660	.738	80 "
143-16J12S	Blue	16½	.575	.638	.720	.801	76 "
143-17J12S	Violet	17½	.612	.693	.770	.846	76 "
143-18J12S	Gray	18½	.650	.754	.814	.874	82 "
143-19J12S	White	19½	.675	.792	.846	.900	80 "
143-20J12S	Black	20½	.715	.847	.896	.945	74 "

1. Core material: Carbonyl J Core length: 142 Series - 1/4″
   143, 144 Series - 3/8″
2. Inductance and Q readings taken on Boonton 260-A Q meter with 16 AWG tinned copper 1/2″ long soldered along leads and bent at 90° 1/4″ down from stand offs.
3. All inductance values greater than 0.1 uH read at recommended Q meter frequency; those below 0.1 uH calculated from readings taken at 50 MHz.
4. L Min measured with core halfway out top of form.
5. Taps available on 144 series parts at 1/8, 3/8, 5/8 and 7/8 turns.

Coilcraft

Sales: Terri

Thank you...

for your interest in COILCRAFT products. The information you requested is enclosed.

As you review our literature, consider the advantages of choosing COILCRAFT for coils and transformers:

- We can ship your order overnight from a one million piece inventory of standard products.
- COILCRAFT is the only coil manufacturer who can give you technical information, Designers' Kits of standard parts, custom samples, start-up lots, or full production quantities—all with a single phone call.
- For high-volume production at world prices, you benefit from our six plants offshore—all supported by two more COILCRAFT plants in the U.S. and our engineering staff here in Chicago.
- If your application requires a custom design, you have access to our 40 years of experience in engineering low-cost inductive devices.

For answers to additional questions or to order any of our handy Designers' Kits, please call us at 708/639-6400.

Larry Thompson
Sales Manager

Paul Liebman
Marketing Manager

7mm Tuneable RF Coils – 146, 150 Series

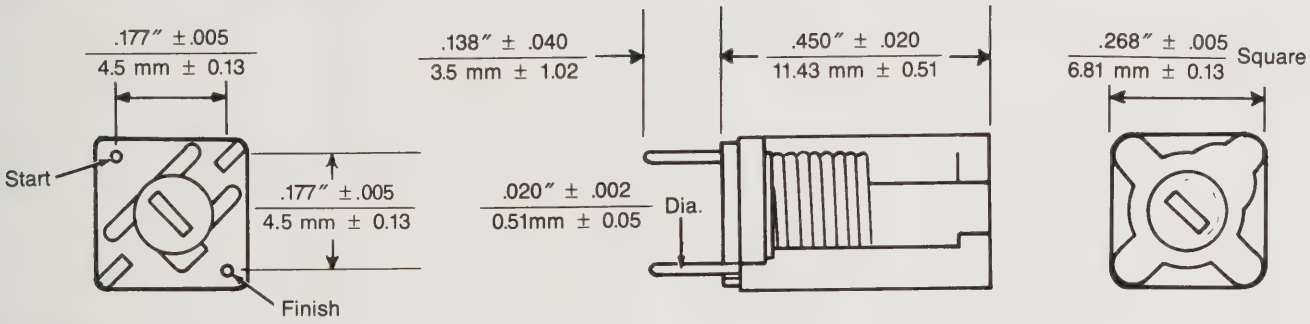
Coilcraft tuneable coils provide the compactness of a 7 mm coil and the low drift reliability of an insert molded coil.

Standard inductance values range from less than 0.05 uH to over 0.5 uH. 150 series coils with a tap are also available to meet specific requirements.

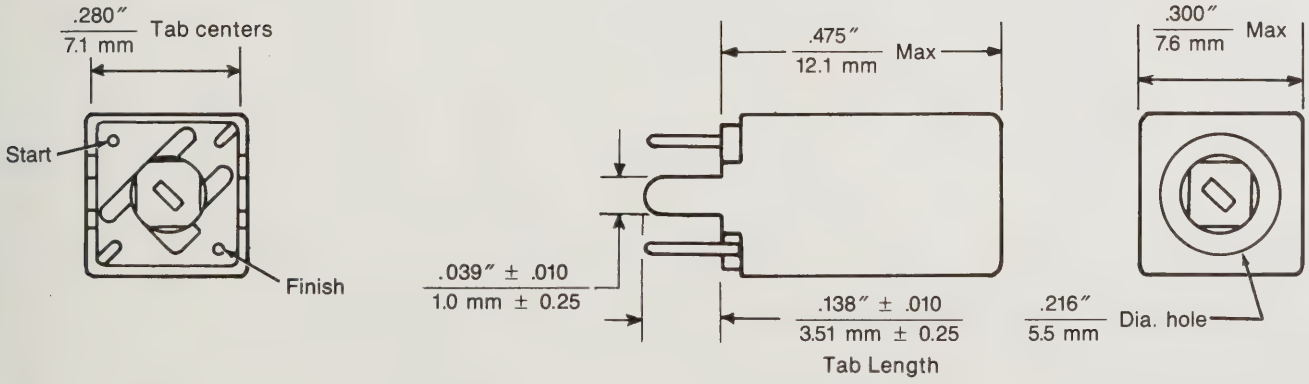
The windings of these economical coils are precision molded into a single piece of polypropylene for mechanical and electrical stability. Optional plated brass shield cans with solderable tabs provide integral shielding and additional mounting stability.

Coilcraft **Designer's Kit M102** contains samples of all standard 7mm and 10mm tuneable inductors. To order, contact Coilcraft.

UNSHIELDED STYLES



WITH SHIELD CAN



Coilcraft
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7mm Tuneable RF Coils – 146, 150 Series

UNSHIELDED

Part Number	Color	Turns	No Core uH Ref	L Min uH	L Nom uH	L Max uH	Min Q @ L Nom
150-01J08	Brown	1½	.0445	.046	.049	.052	88 @ 50 MHz
150-02J08	Red	2½	.0585	.062	.070	.078	100 "
150-03J08	Orange	3½	.0775	.082	.098	.114	108 "
150-04J08	Yellow	4½	.0945	.108	.130	.154	114 "
150-05J08	Green	5½	.116	.137	.165	.193	114 "
150-06J08	Blue	6½	.138	.176	.205	.234	112 "
150-07J08	Violet	7½	.156	.222	.245	.268	108 "
146-01J08	Brown	1½	.045	.047	.050	.053	90 @ 50 MHz
146-02J08	Red	2½	.065	.068	.078	.088	100 "
146-03J08	Orange	3½	.086	.090	.108	.126	100 "
146-04J08	Yellow	4½	.111	.117	.146	.175	94 "
146-05J08	Green	5½	.140	.148	.190	.232	88 "
146-06J08	Blue	6½	.167	.188	.240	.292	78 "
146-07J08	Violet	7½	.198	.231	.292	.350	72 "
146-08J08	Gray	8½	.228	.272	.342	.412	68 "
146-09J08	White	9½	.264	.330	.405	.480	66 @ 40 MHz
146-10J08	Black	10½	.292	.390	.465	.540	60 "

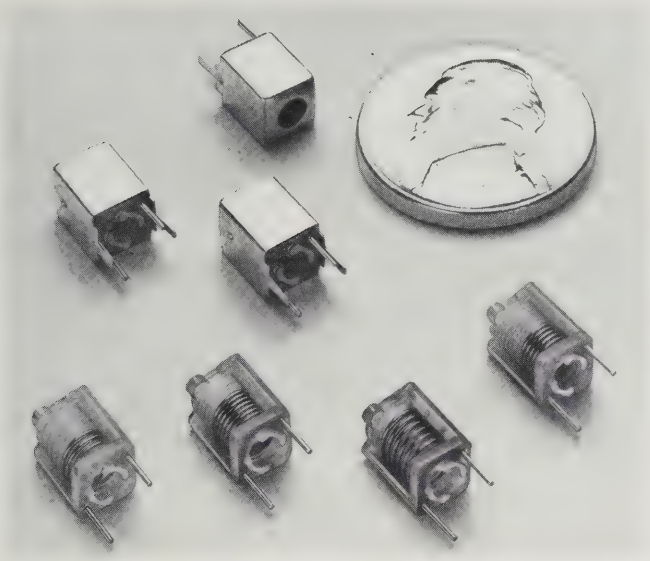
SHIELDED

Part Number	Color	Turns	No Core uH Ref	L Min uH	L Nom uH	L Max uH	Min Q @ L Nom
150-01J08S	Brown	1½	.0425	.0435	.0445	.0445	72 @ 50 MHz
150-02J08S	Red	2½	.054	.056	.060	.064	80 "
150-03J08S	Orange	3½	.068	.071	.076	.081	84 "
150-04J08S	Yellow	4½	.0825	.086	.095	.104	85 "
150-05J08S	Green	5½	.0955	.107	.115	.123	84 "
150-06J08S	Blue	6½	.109	.125	.134	.143	82 "
150-07J08S	Violet	7½	.123	.150	.156	.162	80 "
146-01J08S	Brown	1½	.044	.045	.046	.047	76 @ 50 MHz
146-02J08S	Red	2½	.059	.062	.065	.068	78 "
146-03J08S	Orange	3½	.075	.080	.085	.090	78 "
146-04J08S	Yellow	4½	.095	.100	.110	.120	78 "
146-05J08S	Green	5½	.115	.120	.135	.150	76 "
146-06J08S	Blue	6½	.136	.142	.163	.184	72 "
146-07J08S	Violet	7½	.155	.172	.194	.216	68 "
146-08J08S	Gray	8½	.176	.200	.224	.248	66 "
146-09J08S	White	9½	.202	.234	.260	.284	60 "
146-10J08S	Black	10½	.224	.260	.288	.315	56 "

NOTES

1. Core material: Carbonyl J
   Core length: 1/4″
2. Inductance and Q readings taken on Boonton 260-A Q meter with 16 AWG tinned copper 1/2″ long soldered along leads and bent at 90° 1/4″ down from stand offs.
3. All inductance values greater than 0.1 uH read at recommended Q meter frequency.
4. All inductance values below 0.1 uH calculated from readings taken at 50 MHz.
5. L Min measured with core halfway out top of form.
6. Taps available in 150 series parts at 1/8, 3/8, 5/8 and 7/8 turns.

5mm Tuneable RF Inductor – 164, 165 Series



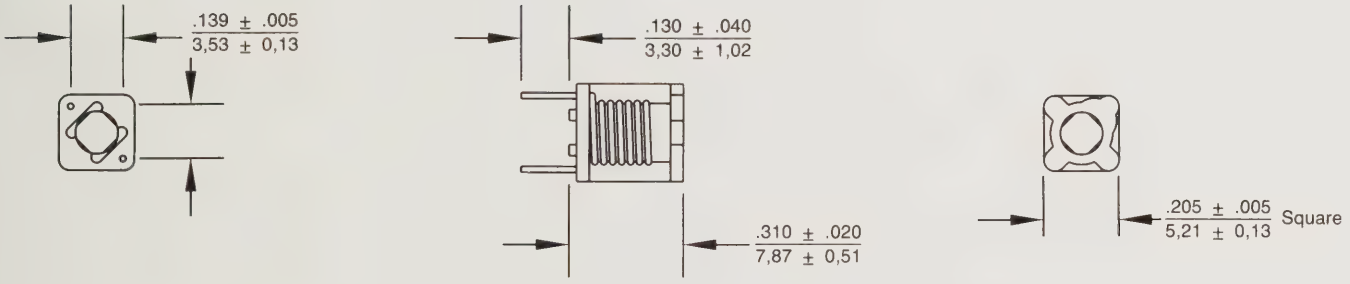
Coilcraft tuneable inductors provide the compactness of a 5mm coil and the low drift reliability of an insert molded coil.

Standard inductance values range from 9nH to over 280nH.

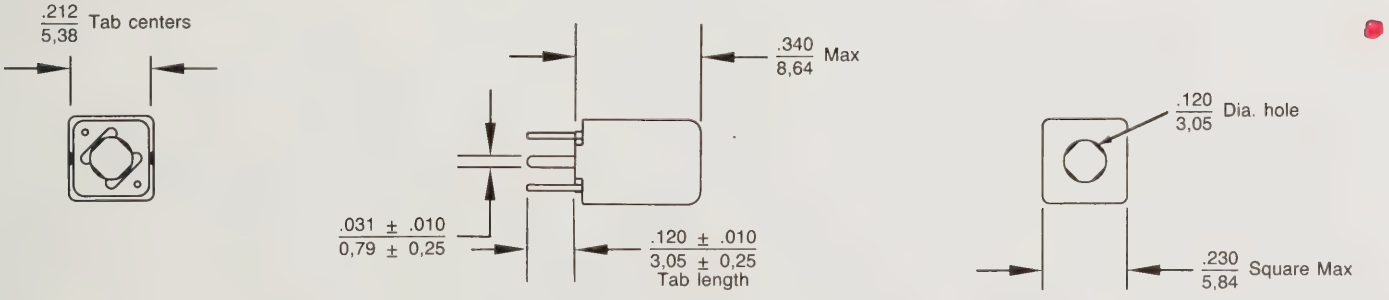
The windings of these economical coils are precision molded into a single piece of polypropylene/nylon/PET for mechanical and electrical stability. Optional plated brass shield cans with solderable tabs provide integral shielding and additional mounting stability.

Coilcraft's **Designer's Kit M105** contains samples of all standard values. To order, please contact Coilcraft.

UNSHIELDED STYLES



SHIELDED STYLES



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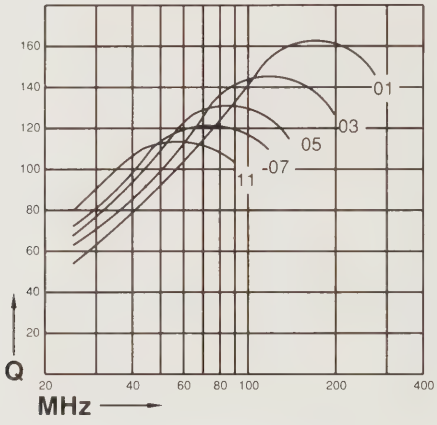
5mm Tuneable RF Inductor – Unshielded

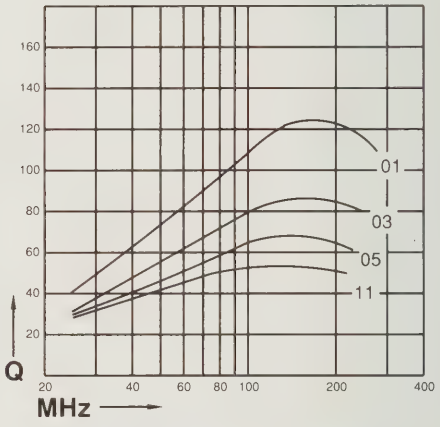
Part Number	Color	Turns	No Core L (nH)	No Core Q (Min)	@ L Max L (nH)	@ L Max Q (Min)	@ L Min L (nH)	@ L Min Q (Min)	Freq. (MHz)
164-01A06	Brown	1½	19	145	19	145	16	112	150
164-02A06	Red	2½	34	138	34	138	26	96	150
164-03A06	Orange	3½	55	130	55	130	38	79	150
164-04A06	Yellow	4½	77	119	77	119	52	72	150
164-05A06	Green	5½	101	108	99	86	65	64	150
164-06A06	Blue	6½	128	107	126	75	83	60	100
164-07A06	Violet	7½	156	106	150	68	97	57	100
164-08A06	Grey	8½	183	100	178	62	112	53	100
164-09A06	White	9½	216	100	190	62	131	53	100
164-10A06	Black	10½	248	92	223	55	148	51	100
164-11A06	Brown	11½	281	92	246	55	170	51	100
165-00A06	Clear	½	9	147	9	147	9	131	150
165-01A06	Brown	1½	18	145	18	145	15	112	150
165-02A06	Red	2½	32	143	32	143	25	92	150
165-03A06	Orange	3½	48	138	45	135	33	84	150
165-04A06	Yellow	4½	64	133	60	114	43	76	150
165-05A06	Green	5½	83	125	78	110	54	73	150
165-06A06	Blue	6½	103	120	90	94	68	70	150
165-07A06	Violet	7½	122	115	105	92	79	69	150

Q vs FREQUENCY

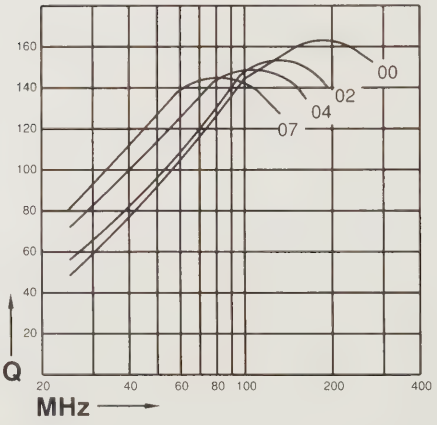
164 SERIES NO CORE



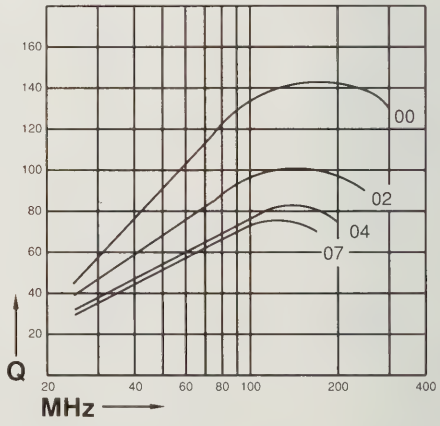
164 SERIES AL CORE



165 SERIES NO CORE



165 SERIES AL CORE



NOTES:

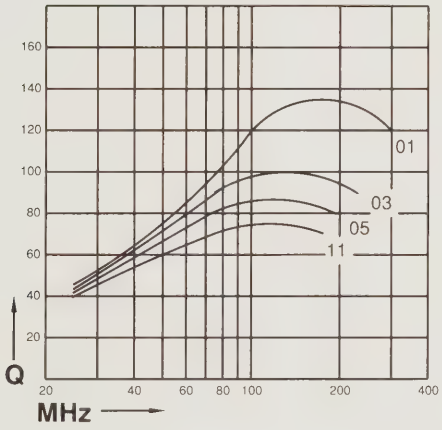
—Core: Aluminum .187″ long
—Inductance: Measured on HP4191A Impedance Analyzer with 16092A Spring Clip Fixture
—L Max: Measured with core halfway out top of form
—L Min: Measured with core centered in winding
—Q: Measured on HP4191A with 16092A fixture, direct connect to HP4342A Q-Meter and Meguro MQ-171 Q-Meter with 0.5″ bus bars

5mm Tuneable RF Inductor – Shielded

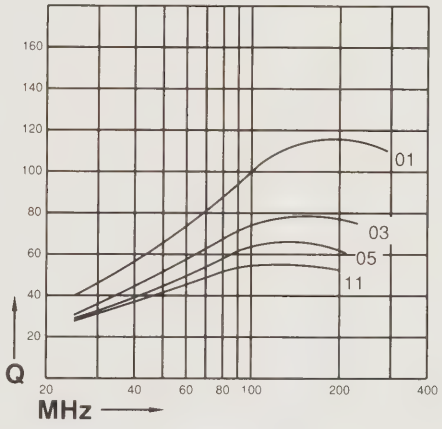
Part Number	Color	Turns	No Core L (nH)	No Core Q (Min)	@ L Max L (nH)	@ L Max Q (Min)	@ L Min L (nH)	@ L Min Q (Min)	Freq. (MHz)
164-01A06S	Brown	1½	16	124	16	124	14	106	150
164-02A06S	Red	2½	27	108	27	108	22	89	150
164-03A06S	Orange	3½	41	92	41	92	32	72	150
164-04A06S	Yellow	4½	56	86	56	84	43	66	150
164-05A06S	Green	5½	71	80	71	79	53	60	150
164-06A06S	Blue	6½	88	79	80	77	65	59	150
164-07A06S	Violet	7½	105	75	101	70	76	54	100
164-08A06S	Grey	8½	122	74	117	64	87	54	100
164-09A06S	White	9½	141	71	134	62	100	53	100
164-10A06S	Black	10½	160	69	150	60	113	51	100
164-11A06S	Brown	11½	179	69	164	60	127	51	100
165-00A06S	Clear	½	9	138	9	138	9	121	150
165-01A06S	Brown	1½	16	124	16	124	14	104	150
165-02A06S	Red	2½	25	110	25	110	21	87	150
165-03A06S	Orange	3½	35	104	33	102	28	78	150
165-04A06S	Yellow	4½	46	97	41	90	35	69	150
165-05A06S	Green	5½	57	92	50	82	43	67	150
165-06A06S	Blue	6½	68	86	59	75	52	65	150
165-07A06S	Violet	7½	80	85	70	74	60	64	150

Q vs FREQUENCY

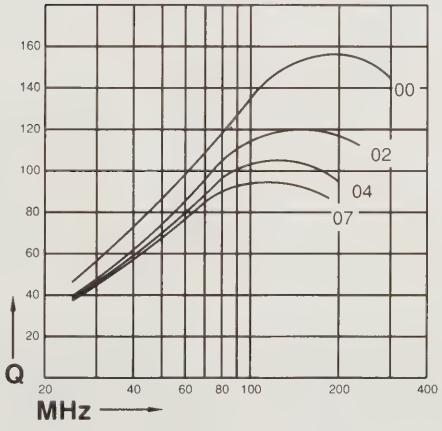
164 SERIES NO CORE



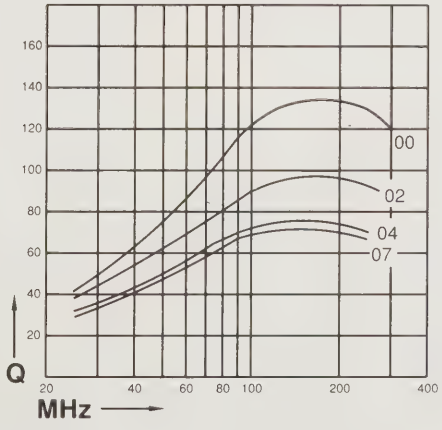
164 SERIES AL CORE



165 SERIES NO CORE



165 SERIES AL CORE



NOTES:

—Core: Aluminum .187″ long
—Inductance: Measured on HP4191A Impedance Analyzer with 16092A Spring Clip Fixture
—L Max: Measured with core halfway out top of form
—L Min: Measured with core centered in winding
—Q: Measured on HP4191A with 16092A fixture, direct connect to HP4342A Q-Meter and Meguro MQ-171 Q-Meter with 0.5″ bus bars

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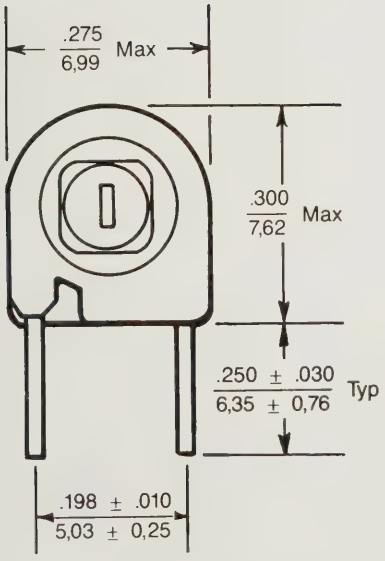
TUNEABLE RF INDUCTORS HORIZONTAL MOUNT-148 SERIES

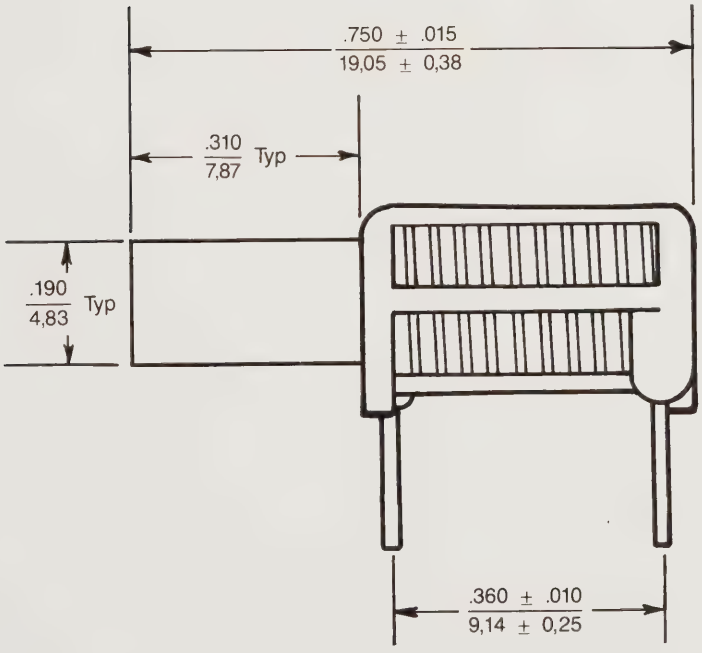
With an overall height of only .300″, these tuneable coils are ideal for applications where low-profile circuit boards are essential.

The windings of Coilcraft 148 Series coils are precision molded in plastic to guarantee a constant winding pitch and a consistent relationship to the printed circuit board.

Tuning is done by means of a threaded Carbonyl J core. Ferrite or aluminum cores are also available.

Coilcraft **Designer's Kit M104** contains 6 samples each of 13 standard values plus 20 values from the 132 Series of low profile, high Q fixed inductors. To order, contact Coilcraft.





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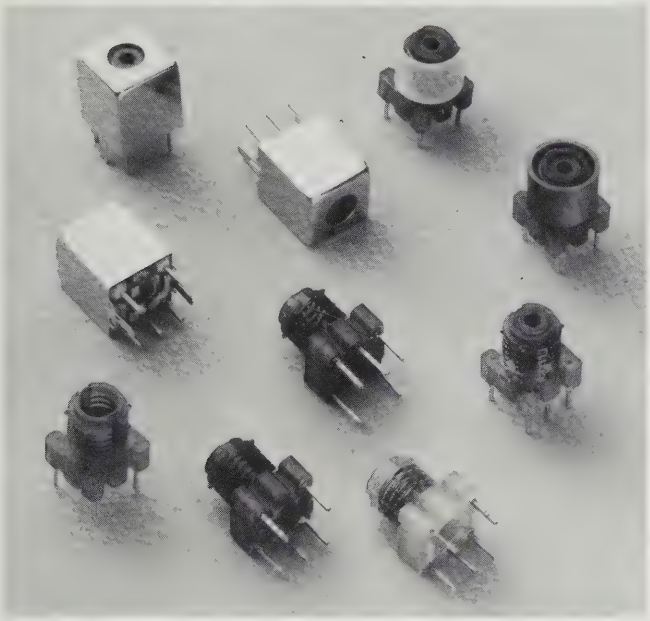
SPECIFICATIONS

Part Number	Color	Turns	No core nH	L Min nH	L Nom nH	L Max nH	Min Q @ L Nom
148-01J12	Brown	1½	35	38	39	40	88 @ 50 MHz
148-02J12	Red	2½	44	46	52	58	96 @ 50 MHz
148-03J12	Orange	3½	56	60	73	86	106 @ 50 MHz
148-04J12	Yellow	4½	74	77	101	125	112 @ 50 MHz
148-05J12	Green	5½	92	96	130	164	112 @ 50 MHz
148-06J12	Blue	6½	114	120	170	220	112 @ 50 MHz
148-07J12	Violet	7½	142	154	222	290	110 @ 50 MHz
148-08J12	Gray	8½	168	176	262	346	106 @ 25 MHz
148-09J12	White	9½	198	208	310	410	104 @ 25 MHz
148-10J12	Black	10½	237	250	375	500	90 @ 25 MHz
148-11J12	Brown	11½	276	290	435	580	84 @ 25 MHz
148-12J12	Red	12½	315	338	500	666	66 @ 25 MHz
148-13J12	Orange	13½	344	362	540	710	64 @ 25 MHz

Notes:
1. Core material: Carbonyl J Core length: 3/8″
2. Inductance and Q readings taken on H.P. 4342-A Q meter with 16 AWG tinned copper ½″ long soldered along leads and bent at 90° ¼″ down from standoffs.
3. Inductance values at 50 MHz calculated from C_p readings. Inductance values at 25 MHz read at standard Q meter frequency (blue line).
4. L Min measured with core halfway out top of form.

Coilcraft Cary, Illinois 60013 (708) 639-6400 • FAX (708) 639-1469 • TELEX 216378

"Slot Seven" 7mm Tuneable Inductors

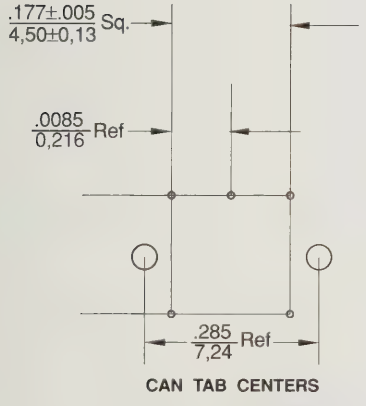


These versatile Coilcraft variable inductors operate over a wide range of frequencies. Standard inductance values are available from less than 100 nH to over 250 µH. Custom values can also be provided upon request.

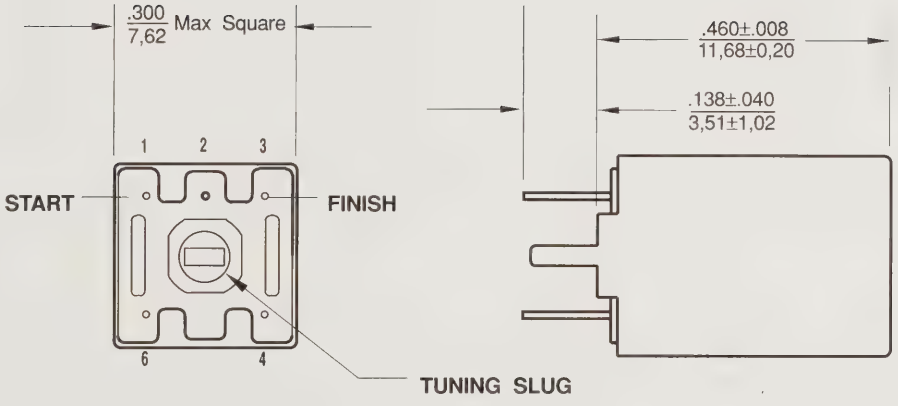
Coilcraft "Slot Seven" RF coils come in an international 7 mm package. Their precision-molded slotted bobbins assure tight tolerances and high stability.

A variety of magnetic and electrostatic shielding options are offered. "Slot Seven" coils are tuned by means of slotted ferrite tuning cores for easy, positive adjustment.

Coilcraft **Designer's Kit M106** contains 39 coils (3 each). To order, please contact Coilcraft.



LEAD CENTERS



BOTTOM VIEW

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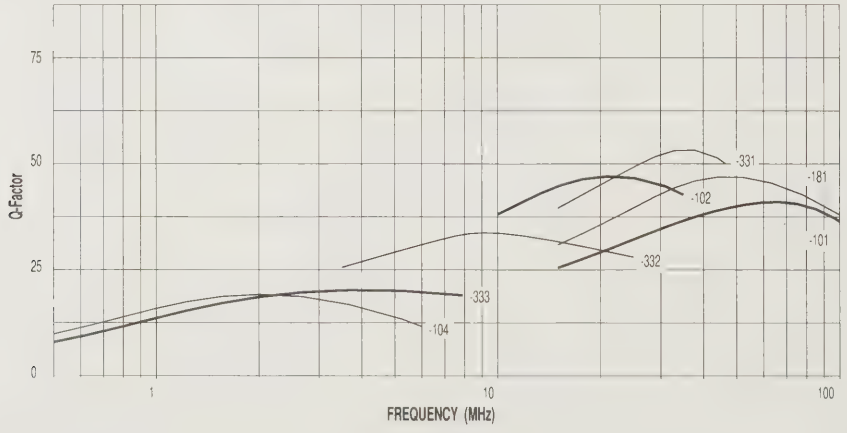
"Slot Seven" 7mm Tuneable Inductors

SERIES 7M2 – WITH PLASTIC SLEEVE

Part Number	L Min (uH)	L Nom (uH)	L Max (uH)	Test Frequency	Q Min @ L Nom	DCR Max (ohms)
7M2-101	0.094	0.100	0.106	25 MHz	27	0.124
7M2-121	0.113	0.120	0.127	25 MHz	27	0.124
7M2-151	0.141	0.150	0.159	25 MHz	30	0.151
7M2-181	0.169	0.180	0.191	25 MHz	30	0.151
7M2-221	0.207	0.220	0.233	25 MHz	35	0.176
7M2-271	0.254	0.270	0.286	25 MHz	35	0.198
7M2-331	0.310	0.330	0.350	25 MHz	40	0.248
7M2-391	0.367	0.390	0.413	25 MHz	40	0.271
7M2-471	0.442	0.470	0.498	25 MHz	40	0.291
7M2-561	0.526	0.560	0.594	25 MHz	40	0.317
7M2-681	0.612	0.680	0.748	25 MHz	40	0.333
7M2-821	0.738	0.820	0.902	25 MHz	45	0.368
7M2-102	0.9	1.0	1.1	25 MHz	45	0.396
7M2-122	1.1	1.2	1.3	7.9 MHz	27	0.412
7M2-152	1.4	1.5	1.7	7.9 MHz	27	0.466
7M2-182	1.6	1.8	2.0	7.9 MHz	27	0.544
7M2-222	2.0	2.2	2.4	7.6 MHz	27	0.595
7M2-272	2.4	2.7	3.0	7.9 MHz	27	0.898
7M2-332	3.0	3.3	3.6	7.9 MHz	27	1.04
7M2-392	3.5	3.9	4.3	7.9 MHz	27	1.12
7M2-472	4.2	4.7	5.2	7.9 MHz	27	1.38
7M2-562	5.0	5.6	6.2	7.9MHz	27	1.42
7M2-682	6.1	6.8	7.5	7.9 MHz	27	1.49
7M2-822	7.4	8.2	9.0	7.9 MHz	27	1.65
7M2-103	9.0	10	11	7.9 MHz	27	2.42
7M2-123	10	12	14	2.5 MHz	20	2.75
7M2-153	13	15	17	2.5 MHz	20	3.71
7M2-183	15	18	21	2.5 MHz	20	4.01
7M2-223	19	22	25	2.5 MHz	20	7.37
7M2-273	23	27	31	2.5 MHz	20	8.48
7M2-333	28	33	38	2.5 MHz	20	13.34
7M2-393	33	39	45	2.5 MHz	20	14.72
7M2-473	40	47	54	2.5 MHz	20	16.42
7M2-563	48	56	64	2.5 MHz	20	17.76
7M2-683	58	68	78	2.5 MHz	20	19.76
7M2-823	70	82	94	2.5 MHz	20	22.01
7M2-104	85	100	115	2.5 MHz	20	24.25

TYPICAL Q AT L NOM - SERIES 7M2

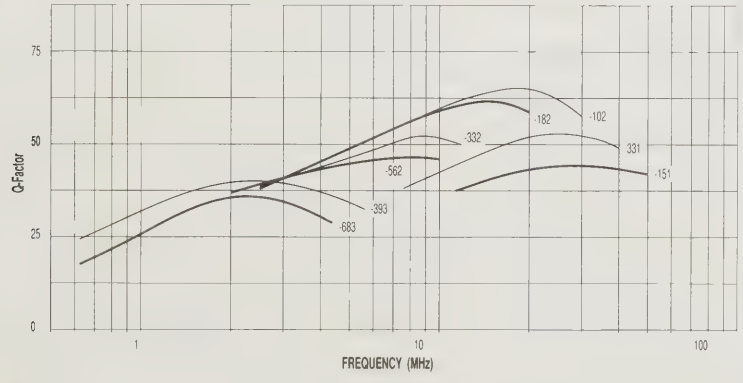


"Slot Seven" 7mm Tuneable Inductors

SERIES 7M3 – WITH FERRITE MAGNETIC SHIELD

Part Number	L Min (uH)	L Nom (uH)	L Max (uH)	Test Frequency	Q Min @ L Nom	DCR Max (ohms)
7M3-151	0.128	0.150	0.173	25 MHz	40	0.124
7M3-181	0.153	0.180	0.207	25 MHz	45	0.124
7M3-221	0.187	0.220	0.253	25 MHz	45	0.151
7M3-271	0.230	0.270	0.311	25 MHz	50	0.151
7M3-331	0.281	0.330	0.380	25 MHz	50	0.151
7M3-391	0.332	0.390	0.449	25 MHz	55	0.176
7M3-471	0.400	0.470	0.541	25 MHz	55	0.198
7M3-561	0.476	0.560	0.644	25 MHz	60	0.198
7M3-681	0.544	0.680	0.816	25 MHz	60	0.248
7M3-821	0.656	0.820	0.984	25 MHz	60	0.271
7M3-102	0.8	1.0	1.2	25 MHz	60	0.317
7M3-122	1.0	1.2	1.4	7.9 MHz	45	0.333
7M3-152	1.2	1.5	1.8	7.9 MHz	45	0.368
7M3-182	1.4	1.8	2.2	7.9 MHz	45	0.396
7M3-222	1.8	2.2	2.6	7.9 MHz	45	0.412
7M3-272	2.2	2.7	3.2	7.9 MHz	45	0.466
7M3-332	2.6	3.3	4.0	7.9 MHz	40	0.544
7M3-392	3.1	3.9	4.7	7.9 MHz	40	0.595
7M3-472	3.8	4.7	5.6	7.9 MHz	40	0.898
7M3-562	4.5	5.6	6.7	7.9 MHz	40	1.04
7M3-682	5.4	6.8	8.2	7.9 MHz	35	1.04
7M3-822	6.6	8.2	9.8	7.9 MHz	35	1.12
7M3-103	8	10	12	7.9 MHz	35	1.38
7M3-123	9	12	15	2.5 MHz	35	1.49
7M3-153	11	15	19	2.5 MHz	35	1.65
7M3-183	14	18	23	2.5 MHz	35	2.42
7M3-223	17	22	28	2.5 MHz	35	2.75
7M3-273	20	27	34	2.5 MHz	40	3.71
7M3-333	25	33	41	2.5 MHz	40	3.71
7M3-393	29	39	49	2.5 MHz	40	4.01
7M3-473	35	47	59	2.5 MHz	40	7.37
7M3-563	42	56	70	2.5 MHz	40	8.48
7M3-683	51	68	85	2.5 MHz	40	13.34
7M3-823	62	82	103	2.5 MHz	40	14.72
7M3-104	75	100	125	2.5 MHz	40	16.42
7M3-124	90	120	150	2.5 MHz	40	17.76
7M3-154	113	150	188	2.5 MHz	40	19.76
7M3-184	135	180	225	2.5 MHz	40	22.01
7M3-224	165	220	275	2.5 MHz	40	24.25

TYPICAL Q AT L NOM - SERIES 7M3



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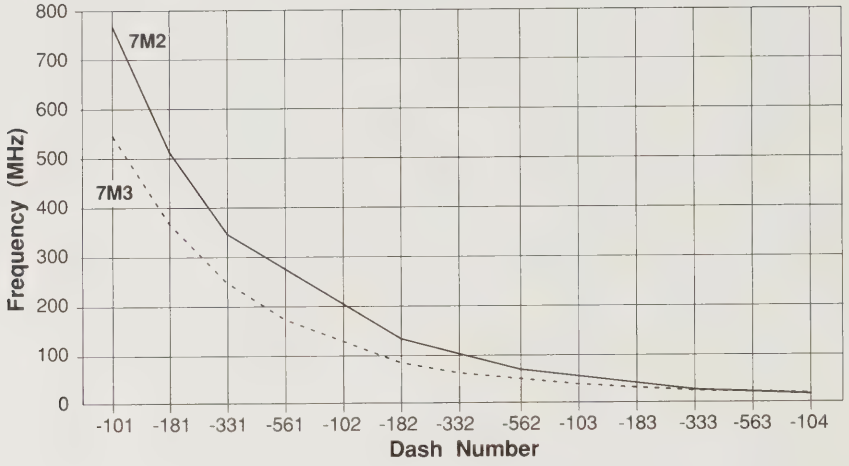
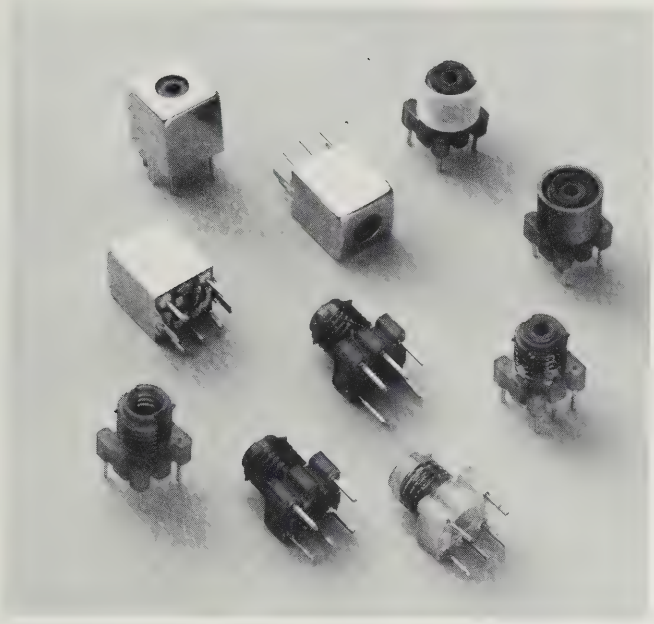
"Slot Seven" 7mm Tuneable Inductors

TYPICAL SELF RESONANT FREQUENCY

At nominal inductance



"Slot Ten" 10mm Tuneable Inductors



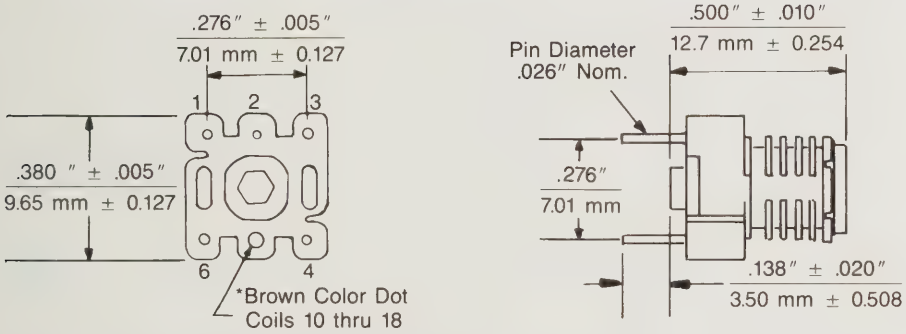
These versatile Coilcraft variable inductors operate over a wide range of frequencies. Standard inductance values are available from less than 1 uH to over 1 mH. Custom values can also be provided upon request.

Coilcraft "Slot Ten" RF coils come in an international 10mm package. Their precision-molded slotted bobbins assure tight tolerances and high stability.

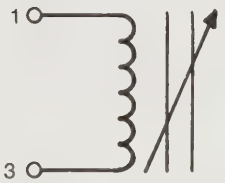
A variety of magnetic and electrostatic shielding options are offered. "Slot Ten" coils are tuned by means of ferrite or powdered iron tuning cores with a hex hole for easy, positive adjustment.

Coilcraft **Designer's Kit M100** contains 18 shielded and 18 unshielded coils (3 each) plus extra cores and sleeves to create all of the standard values shown. To order, please contact Coilcraft.

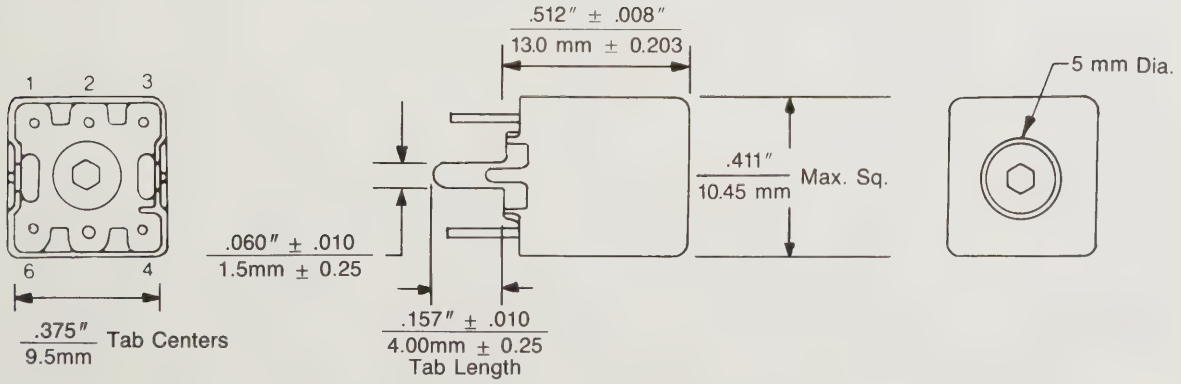
UNSHIELDED (STYLES 1 and 2)



SCHEMATIC



WITH SHIELD CAN (STYLES 3, 4 and 5)



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SELECTION GUIDE

Coilcraft "Slot Ten" coils come in five different styles. Consult this table for the inductance range, relative Q, and shielding options of each style. Then use the appropriate specification chart to pick a specific part number.

Style	L(uH)	Electrostatic Shield	Magnetic Shield	Recommended Frequency	Tuning Core	Relative Q	Relative Cost
Style 1	.8 – 624	No	No	Higher	Iron	Hi	Low
Style 2	.8 – 927	No	No		Ferrite	Hi	Low
Style 3	.7 – 450	Yes	No		Iron	Low	Med
Style 4	.8 – 624	Yes	Yes (Iron)	Lower	Iron	Med	Hi
Style 5	.9 – 1143	Yes	Yes (Ferrite)		Ferrite	Med	Hi

NOTES:
1. All readings taken on H.P. 4342-A Q Meter.
2. L min is achieved at maximum extension of the core toward PC board. Complete tuning range is reached within the boundaries of the coil form.
3. All specifications are recommended at standard "Q" meter frequency as a simple way to assure the quality of our parts. L and Q readings will vary with frequency change.
4. Unshielded parts are coated with lacquer to protect the winding.
5. Shielded parts have a sleeve insert to protect the winding.

STYLE 1 – Unshielded With Carbonyl E Core

Part Number	Color	L min (uH)	L max (uH)	L nom (uH)	Min Q @ L nom	Test Frequency
SLOT TEN-1-01	Brown	.800	1.2	1.0	48	7.9 MHz
SLOT TEN-1-02	Red	1.2	1.8	1.5	50	7.9 MHz
SLOT TEN-1-03	Orange	1.76	2.64	2.2	56	7.9 MHz
SLOT TEN-1-04	Yellow	2.56	3.84	3.2	54	7.9 MHz
SLOT TEN-1-05	Green	3.6	5.4	4.5	54	7.9 MHz
SLOT TEN-1-06	Blue	5.2	7.8	6.5	51	7.9 MHz
SLOT TEN-1-07	Violet	7.6	11.4	9.5	48	7.9 MHz
SLOT TEN-1-08	Grey	11.2	16.8	14.0	38	2.5 MHz
SLOT TEN-1-09	White	16.0	24.0	20.0	38	2.5 MHz
SLOT TEN-1-10	Black*	22.4	33.6	28.0	38	2.5 MHz
SLOT TEN-1-11	Brown*	32.0	48.0	40.0	38	2.5 MHz
SLOT TEN-1-12	Red*	46.4	69.6	58.0	47	2.5 MHz
SLOT TEN-1-13	Orange*	67.2	100.2	84.0	48	2.5 MHz
SLOT TEN-1-14	Yellow*	96	144	120.0	40	790 KHz
SLOT TEN-1-15	Green*	137.6	206.4	172.0	34	790 KHz
SLOT TEN-1-16	Blue*	200	300	250.0	39	790 KHz
SLOT TEN-1-17	Violet*	280	432	360.0	30	790 KHz
SLOT TEN-1-18	Grey*	416	624	520.0	35	790 KHz

STYLE 2 – Unshielded With Ferrite Core

Part Number	Color	L min (uH)	L max (uH)	L nom (uH)	Min Q @ L nom	Test Frequency
SLOT TEN-2-01	Brown	.80	1.7	1.2	47	7.9 MHz
SLOT TEN-2-02	Red	1.25	2.75	2.0	48	7.9 MHz
SLOT TEN-2-03	Orange	1.75	4.0	2.9	48	7.9 MHz
SLOT TEN-2-04	Yellow	2.4	5.4	3.9	47	7.9 MHz
SLOT TEN-2-05	Green	3.5	7.8	5.6	47	7.9 MHz
SLOT TEN-2-06	Blue	4.7	10.6	7.6	46	7.9 MHz
SLOT TEN-2-07	Violet	7.4	15.6	11.5	38	2.5 MHz
SLOT TEN-2-08	Grey	11	25	18.2	40	2.5 MHz
SLOT TEN-2-09	White	16	35	25.3	40	2.5 MHz
SLOT TEN-2-10	Black	22	50	36.5	40	2.5 MHz
SLOT TEN-2-11	Brown*	33	72	52.5	39	2.5 MHz
SLOT TEN-2-12	Red*	46	103	74.8	51	2.5 MHz
SLOT TEN-2-13	Orange*	66	136	100	40	790 KHz
SLOT TEN-2-14	Yellow*	95	198	146	44	790 KHz
SLOT TEN-2-15	Green*	136	297	216	40	790 KHz
SLOT TEN-2-16	Blue*	198	426	312	45	790 KHz
SLOT TEN-2-17	Violet*	286	630	530	33	790 KHz
SLOT TEN-2-18	Grey*	418	927	790	38	790 KHz

*Coils 10 thru 18 have a brown color dot on bottom of coil base.

STYLE 3 – Shielded With Carbonyl E Core and Plastic Sleeve

Part Number	Color	L min (uH)	L max (uH)	L nom (uH)	Min Q @ L nom	Test Frequency
SLOT TEN-3-01	Brown	.70	.94	.82	65	7.9 MHz
SLOT TEN-3-02	Red	1.05	1.41	1.23	37	7.9 MHz
SLOT TEN-3-03	Orange	1.5	2.0	1.75	40	7.9 MHz
SLOT TEN-3-04	Yellow	2.04	2.76	2.4	40	7.9 MHz
SLOT TEN-3-05	Green	2.9	3.9	3.4	39	7.9 MHz
SLOT TEN-3-06	Blue	4.25	5.75	5.0	38	7.9 MHz
SLOT TEN-3-07	Violet	6	8.2	7.1	35	7.9 MHz
SLOT TEN-3-08	Grey	9.4	12.6	11.0	25	2.5 MHz
SLOT TEN-3-09	White	12.8	17.2	15.0	25	2.5 MHz
SLOT TEN-3-10	Black*	18.7	25.3	22.0	26	2.5 MHz
SLOT TEN-3-11	Brown*	26.4	35.6	31.0	25	2.5 MHz
SLOT TEN-3-12	Red*	37.4	50.6	44	29	2.5 MHz
SLOT TEN-3-13	Orange*	52.7	71.3	62	30	2.5 MHz
SLOT TEN-3-14	Yellow*	79	105	92	28	2.5 MHz
SLOT TEN-3-15	Green*	108.8	147.2	128	18	790 KHz
SLOT TEN-3-16	Blue*	155	208	182	20	790 KHz
SLOT TEN-3-17	Violet*	230	310	270	16	790 KHz
SLOT TEN-3-18	Grey*	336	450	390	18	790 KHz

STYLE 4 – Shielded With Carbonyl E Core and Sleeve

Part Number	Color	L min (uH)	L max (uH)	L nom (uH)	Min Q @ L nom	Test Frequency
SLOT TEN-4-01	Brown	.80	1.2	1.0	44	7.9 MHz
SLOT TEN-4-02	Red	1.2	1.8	1.5	45	7.9 MHz
SLOT TEN-4-03	Orange	1.76	2.64	2.2	48	7.9 MHz
SLOT TEN-4-04	Yellow	2.56	3.84	3.2	48	7.9 MHz
SLOT TEN-4-05	Green	3.6	5.4	4.5	46	7.9 MHz
SLOT TEN-4-06	Blue	5.2	7.8	6.5	43	7.9 MHz
SLOT TEN-4-07	Violet	7.6	11.4	9.5	40	7.9 MHz
SLOT TEN-4-08	Grey	11.2	16.8	14	32	2.5 MHz
SLOT TEN-4-09	White	16.0	24.0	20	33	2.5 MHz
SLOT TEN-4-10	Black*	22.4	33.6	28	32	2.5 MHz
SLOT TEN-4-11	Brown*	32.0	48.0	40	32	2.5 MHz
SLOT TEN-4-12	Red*	46.4	69.6	58	40	2.5 MHz
SLOT TEN-4-13	Orange*	67.2	100.8	85	40	2.5 MHz
SLOT TEN-4-14	Yellow*	96	144	120	33	790 KHz
SLOT TEN-4-15	Green*	137.6	206.4	172	28	790 KHz
SLOT TEN-4-16	Blue*	200.0	300.0	250	32	790 KHz
SLOT TEN-4-17	Violet*	288	432	360	26	790 KHz
SLOT TEN-4-18	Grey*	416	624	520	29	790 KHz

STYLE 5 – Shielded With Ferrite Core and Sleeve

Part Number	Color	L min (uH)	L max (uH)	L nom (uH)	Min Q @ L nom	Test Frequency
SLOT TEN-5-01	Brown	.86	2.0	1.4	43	7.9 MHz
SLOT TEN-5-02	Red	1.27	3.25	2.25	44	7.9 MHz
SLOT TEN-5-03	Orange	1.83	4.6	3.25	41	7.9 MHz
SLOT TEN-5-04	Yellow	2.48	6.4	4.5	40	7.9 MHz
SLOT TEN-5-05	Green	3.58	9.3	6.5	40	7.9 MHz
SLOT TEN-5-06	Blue	5.0	12.7	8.8	38	7.9 MHz
SLOT TEN-5-07	Violet	7.7	18.4	13.0	30	2.5 MHz
SLOT TEN-5-08	Grey	12.0	30.0	20.9	35	2.5 MHz
SLOT TEN-5-09	White	16	42	29.4	34	2.5 MHz
SLOT TEN-5-10	Black*	25	60	42.3	32	2.5 MHz
SLOT TEN-5-11	Brown*	36	90	62.8	30	2.5 MHz
SLOT TEN-5-12	Red*	48	126	87.2	42	2.5 MHz
SLOT TEN-5-13	Orange*	72	163	116	35	790 KHz
SLOT TEN-5-14	Yellow*	102	238	168	36	790 KHz
SLOT TEN-5-15	Green*	147	360	252	36	790 KHz
SLOT TEN-5-16	Blue*	215	522	312	45	790 KHz
SLOT TEN-5-17	Violet*	303	765	530	33	790 KHz
SLOT TEN-5-18	Grey*	440	1143	790	38	790 KHz

*Coils 10 thru 18 have a brown color dot on bottom of coil base.

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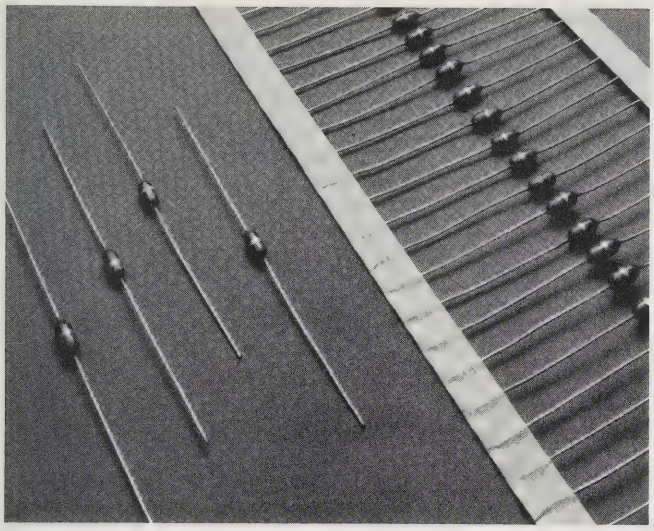
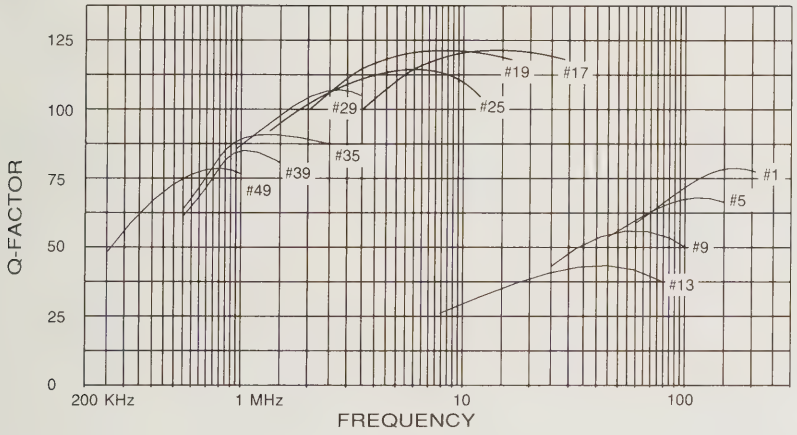
Axial Lead Chokes – 90 Series

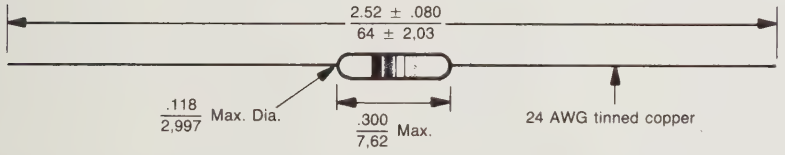


Coilcraft's axial lead chokes are totally encapsulated in a durable epoxy coating. Their low cost compared to molded type chokes makes them particularly attractive to high volume users. Coilcraft chokes are available in the standard values listed here as well as in custom values to meet your specific requirements.

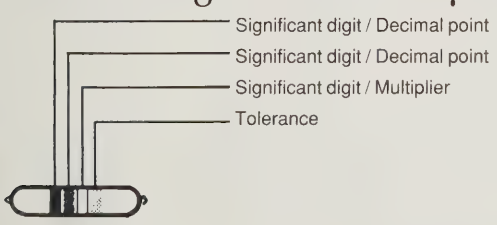
Coilcraft **Designer's Kit No. F102** contains samples of 25 standard parts. To order, please contact Coilcraft.

Q vs Frequency





Color Coding - Inductance in µH



Black	=	0
Brown	=	1
Red	=	2
Orange	=	3
Yellow	=	4
Green	=	5
Blue	=	6
Violet	=	7
Grey	=	8
White	=	9
Gold	=	Decimal point
Silver	=	10% tolerance

Note: The color gold represents a decimal point and will only appear in the 1st or 2nd stripe locations. When a gold stripe is present, there will be no multiplier. The inductance value will be as indicated in microHenries.

Features

- No molding stress to break wire
- 10% inductance tolerance standard, 5% available
- Temperature coefficient compatible with N030-N080 capacitors through part number 90-30
- Standard EIA color coding
- Significant savings for high volume users
- Available bulk packed, in conventional tape and reel, or "ammo packs." Custom lead forming also available
- Offered in 49 standard values or in custom values

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Axial Lead Chokes – 90 Series

Parts in **bold face** are in stock, available for immediate shipment. For other values, allow 6-8 weeks.

Part Number	L uH ± 10%	Q Min.	Test Freq. MHz	DCR Max. Ohms	SRF Min. MHz.	Max Current mA
90-01	**0.1**	**38**	**25**	**0.08**	**680**	**1380**
90-02	**0.12**	**38**	**25**	**0.09**	**640**	**1300**
90-03	**0.15**	**38**	**25**	**0.11**	**600**	**1230**
90-04	**0.18**	**35**	**25**	**0.12**	**550**	**1120**
90-05	**0.22**	**33**	**25**	**0.14**	**510**	**1040**
90-06	**0.27**	**33**	**25**	**0.16**	**460**	**975**
90-07	**0.33**	**30**	**25**	**0.22**	**410**	**830**
90-08	**0.39**	**30**	**25**	**0.3**	**365**	**710**
90-09	**0.47**	**30**	**25**	**0.35**	**330**	**660**
90-10	**0.56**	**30**	**25**	**0.5**	**310**	**550**
90-11	**0.68**	**28**	**25**	**0.6**	**280**	**500**
90-12	**0.82**	**28**	**25**	**0.85**	**260**	**420**
90-13	**1**	**25**	**25**	**1**	**240**	**390**
90-14	**1.2**	**60**	**7.9**	**0.15**	**150**	**620**
90-15	**1.5**	**60**	**7.9**	**0.16**	**140**	**560**
90-16	**1.8**	**60**	**7.9**	**0.2**	**125**	**480**
90-17	**2.2**	**60**	**7.9**	**0.29**	**115**	**415**
90-18	**2.7**	**50**	**7.9**	**0.4**	**100**	**355**
90-19	**3.3**	**50**	**7.9**	**0.42**	**90**	**285**
90-20	**3.9**	**50**	**7.9**	**0.6**	**80**	**263**
90-21	**4.7**	**40**	**7.9**	**0.66**	**60**	**239**
90-22	**5.6**	**40**	**7.9**	**0.7**	**45**	**195**
90-23	**6.8**	**40**	**7.9**	**0.9**	**40**	**185**
90-24	**8.2**	**40**	**7.9**	**1**	**28**	**160**
90-25	**10**	**35**	**7.9**	**1.1**	**24**	**144**
90-26	12	60	2.5	1.62	20	160
90-27	**15**	**60**	**2.5**	**1.75**	**17**	**157**
90-28	18	60	2.5	1.85	16	149
90-29	**22**	**50**	**2.5**	**2**	**14**	**144**
90-30	27	50	2.5	2.1	12	140
90-31	**33**	**50**	**2.5**	**2.2**	**10**	**130**
90-32	39	50	2.5	2.3	9.5	125
90-33	**47**	**50**	**2.5**	**2.4**	**9**	**110**
90-34	56	50	2.5	3	7.8	100
90-35	**68**	**50**	**2.5**	**3.4**	**7**	**92**
90-36	82	50	2.5	3.8	6.7	88
90-37	**100**	**50**	**2.5**	**4.1**	**6.1**	**84**
90-38	120	60	0.79	6.5	4.8	66
90-39	**150**	**60**	**0.79**	**8.3**	**4.1**	**61**
90-40	180	60	0.79	8.9	4	57
90-41	**220**	**60**	**0.79**	**10.1**	**3.6**	**52**
90-42	270	60	0.79	11	3.3	47
90-43	**330**	**60**	**0.79**	**12.4**	**3.1**	**45**
90-44	390	60	0.79	13.6	2.9	40
90-45	**470**	**60**	**0.79**	**18.4**	**2.4**	**36**
90-46	560	60	0.79	20.3	2.2	35
90-47	**680**	**60**	**0.79**	**22.3**	**2**	**30**
90-48	820	60	0.79	25	1.9	29
90-49	**1000**	**60**	**0.79**	**27.4**	**1.8**	**28**

NOTES:

1) Inductance measured with a Coilcraft AXL-A test fixture and HP4191/4192 Impedance Analyzers.
2) Q measured on HP4191/4192 with AXL-A, direct-connected to HP4342 Q-Meter.
3) Temperature rise at rated current and 90°C ambient
   .10 - 1.0 uH: 35°C
   1.2 - 1000 uH: 15°C
4) Maximum operating temperature
   .10 - 1.0 uH: 125°C
   1.2 - 1000 uH: 105°C
5) Color coding per MIL-C-15305C
6) Epoxy coating: flame resistant 94 VO
7) Designed to meet requirements of Military Specifications MS75083, MS75084 and MS75085.

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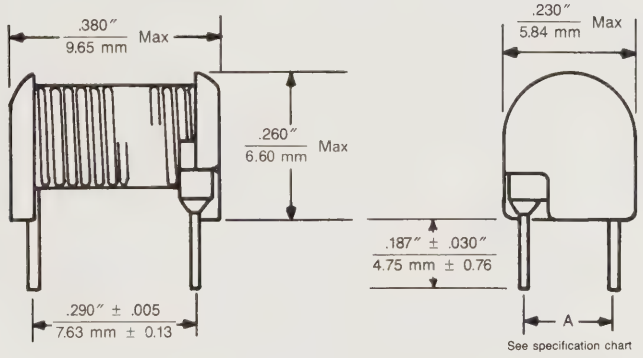
Fixed RF Inductors – 132 Series

These fixed RF coils are part of Coilcraft's series of insert molded inductors. This precision construction technique assures constant winding pitch, long term stability, and tight tolerance (± 5%) on inductance.

These high Q fixed inductors are available in standard values from 31.5 nH to 720 nH.

Coilcraft **Designer's Kit M104** contains 6 samples each of 20 standard values plus 13 values from the 148 Series of horizontal mount tuneable inductors. To order, contact Coilcraft.



SPECIFICATIONS

Part Number	Color	Turns	Dim A[1]	L nH ± 5%[2]	Q Min
132-01	Brown	1½	.148 inches/3.76 mm	31.5	60 @ 50 MHz
132-02	Red	2½	"	36.5	64 "
132-03	Orange	3½	"	44.0	68 "
132-04	Yellow	4½	"	53.5	72 "
132-05	Green	5½	"	64.0	75 "
132-06	Blue	6½	"	79.0	80 "
132-07	Violet	7½	"	99.0	66 @ 25 MHz
132-08	Gray	8½	"	117	68 "
132-09	White	9½	"	138	68 "
132-10	Black	10½	"	158	68 "
132-11	Brown	11½	"	197	66 "
132-12	Red	12½	.153 inches/3.89 mm	235	72 "
132-13	Orange	13½	"	260	70 "
132-14	Yellow	14½	"	290	70 "
132-15	Green	15½	.154 inches/3.91 mm	345	72 "
132-16	Blue	16½	.156 inches/3.96 mm	410	72 "
132-17	Violet	17½	"	475	66 "
132-18	Gray	18½	"	550	66 "
132-19	White	19½	"	600	68 "
132-20	Black	20½	.160 inches/4.06 mm	720	66 "

[1] Tolerance ± .005 inches/0.13 mm.
[2] Inductance and Q readings taken on Boonton 260-A Q meter with leads connected direct.

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NEW PRODUCT

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10BASET FILTER MODULES

Balanced Filters

LAF10T–B Series

Standard Features:

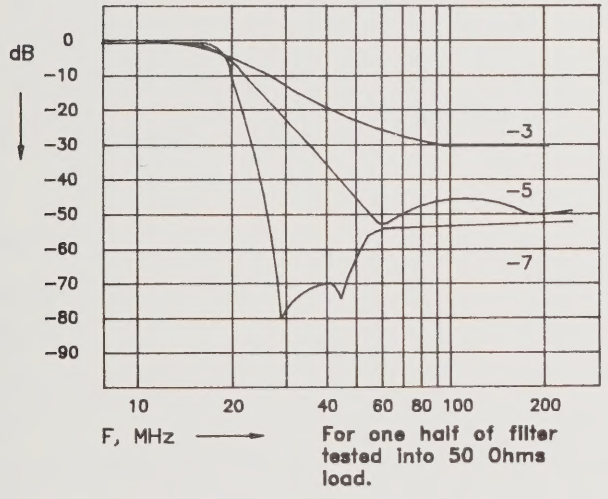
- 15 Mhz cutoff per IEEE 10BaseT
- 100 Ohm Characteristic Impedance
- Butterworth and Elliptical (Cauer) Alignments
- Balanced Configuration

- Applications include:
  - Analog signals
  - video & communication signals
  - 10 BaseT and other LANs
  - FCC & VDE EMI filtering

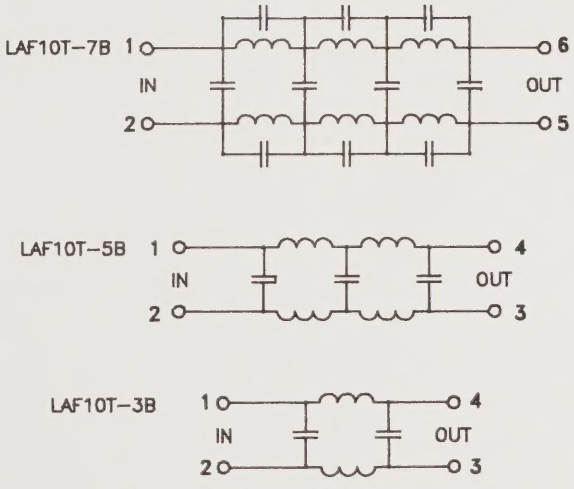
Other Features Available:

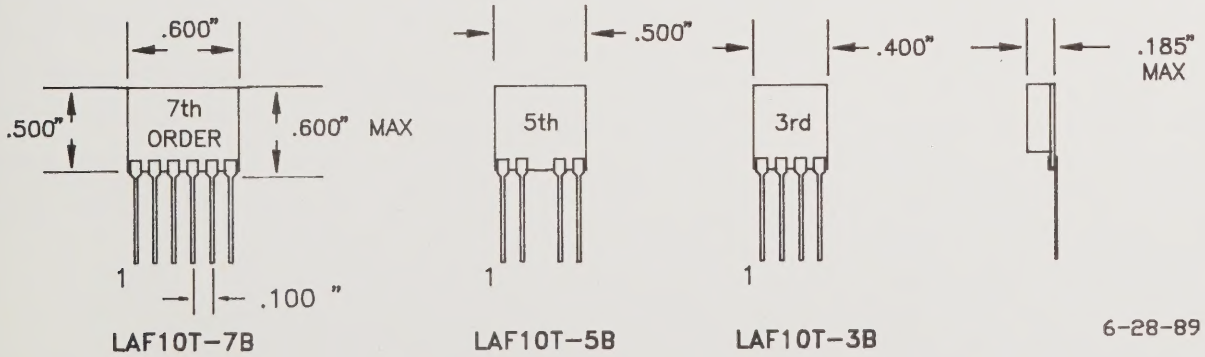
- Cutoff frequencies from 500 kHz to 500 MHz
- DIP and SMD Packaging
- Transformer Isolated Versions

TYPICAL FILTER RESPONSES



For one half of filter tested into 50 Ohms load.





LAF10T–7B LAF10T–5B LAF10T–3B

6-28-89

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Coilcraft Designer's Kits can save you hours of searching or winding your own. They'll help you zero in on one of our off-the-shelf parts or give us a starting point for a custom design.

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Surface Mount Inductors
Inductance: 4.7 nH - 10 µH
42 values (10 of each)
Kit C100 $125

0805 Surface Mount Inductors
Inductance: 3.3 nH - 220 nH
19 values (10 of each)
Kit C103 $60

"Spring" Surface Mount Air Core Inductors
Inductance: 2.5 nH - 43 nH
10 values (12 of each)
Kit C102 $60

"Unicoil" 7/10 mm Tuneable Inductors
Inductance: .0435 µH - 1.5 µH
49 shielded, 49 unshielded (2 of each)
Kit M102 $60

"Unicoil" 5 mm Tuneable Inductors
Inductance: 14 nH - 105 nH
11 shielded, 11 unshielded (2 of each)
Kit M105 $60

"Slot Ten" 10 mm Tuneable Inductors
Inductance: 0.7 µH - 1143 µH
18 shielded, 18 unshielded (3 of each)
Kit M100 $60

"Slot Seven" 7 mm Tuneable Inductors
Inductance: 0.094 µH - 275 µH
39 values (3 of each)
Kit M106 $60

Axial Lead Chokes
Inductance: 0.1 µH - 1000 µH
25 values (5 of each)
Kit F102 $50

Horizontal Mount Inductors
Tuneable and fixed
Inductance: 31.5 nH - 720 nH
33 Values (6 of each)
Kit M104 $60

Low Pass LC Filters
Poles: 3, 5 and 7
Cutoff frequency: 17 MHz
Impedance: 50 Ohms
3 filters (4 each)
Kit D102 $60

Other Coilcraft Product Kits

Common Mode Data Line EMI Filters
Attenuation bandwidth: 15 dBm, 1.5 - 300 MHz
DC current capacity: 100 mA
2, 3, 4, 8 line, surface mount and leaded (4 of each)
Kit D103 $75

Common Mode Line Chokes
Current: .25 - 9 Amps rms
Inductance: 508 µH - 10.5 mH
8 styles (2 of each)
Kit P202 $100

Current Sensors
Sensing range: 0.5 - 35 Amps
Freq. resp.: 1 - 100 kHz, 50 - 400 Hz
Transformer and sensor-only versions
8 styles (15 total pieces)
Kit P203 $50

Base/Gate Driver Transformers
Inductance: 1.5 mH Min.
Frequency: 10 - 250 kHz
2 single, 2 double section (2 of each)
Kit P204 $50

Mag Amp Toroids
Current: 1, 5 Amps
Volt-time product: 42 - 372 V – µsec
6 styles (2 of each)
Kit P206 $100

Power Filter Chokes
Current: 3, 5, 10 Amps
Inductance: 5 µH - 300 µH
18 styles (48 total pieces)
Kit P205 $75

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Coilcraft offers you the industry's broadest range of inductive devices. And we're adding new items every month. Just a partial list of Coilcraft products includes:

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- RF chokes
- High frequency power magnetics
- Surface mount inductors
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- LAN transformers
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- CRT magnetics
- Wideband RF transformers
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